Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

SHOUT
SHARE
IT

Rs 1903

U.S. Department of Agriculture LIBRARY Washington

YEAR
1903
BOOK

ROSS BROTHERS

EVERYTHING
FOR
THE FARM
AND
GARDEN

WORCESTER,
MASS.

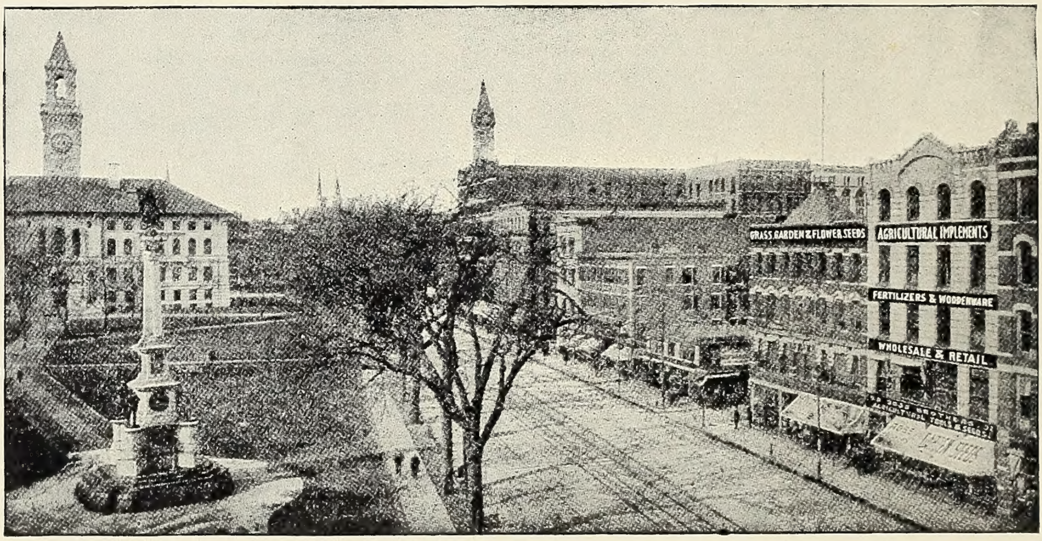
ANOTHER Seed Time is with us and we hand you this, our Annual Seed and Implement Catalogue, and with it our many thanks for your liberal patronage during the past year and we trust you will use it to our mutual advantage. You will find many new tools to help you in tilling the soil and making more pleasant your labors on the farm and in the garden. We do not intend to dictate to you how you shall run your business or what tools or seeds you shall buy, but we do intend to give you, as far as possible, our experience for the past fifteen years in selecting the most improved implements and the best strains of seeds that can be had. It costs no more to own and operate one of the latest improved implements than it does an old one and the results are far greater. This is also true of many of the new varieties of seed, and right here we want to say, that the past season has been very unfavorable for the development of seeds of all kinds and no matter where you buy, it would be well to plant a little more seed than usual, for while it may test well at the time of harvesting, the vitality, on account of the unfavorable weather, is very weak, and liable to germinate a much lower per cent of the actual test when planted.

The close competition of the present day compels the farmer to know just what it costs to produce a bushel of corn or a ton of hay, and if he is to compete with his neighbors, he must have the best of seeds and tools to do it with.

We have no cut and dried plan for you to follow; each one must do his own thinking and adapt himself to the conditions as he finds them. Your business is to get the most out of your farm; our business is to furnish you the goods to do it with, and we think you will agree that our assortment of Agricultural Tools, Seed and Fertilizers is equal to any house in the country. If we were to catalogue everything we carry in stock, it would take a book three times the size of this one, so you will readily see that no matter what you want for the farm, garden, lawn, dairy or poultry house, you can get it of us and you can always depend upon getting the best goods that the market supplies and at the lowest possible market price.

Trusting that we shall be favored with your usual trade, we are, Very respectfully yours,

ROSS BROTHERS.



A Few Things of Importance that We Wish Our Customers to Read.

WE WARRANT OUR SEEDS just as far as it is possible for us to do so.

WHAT WE GUARANTEE. That all seeds sold by us shall be as represented; should they prove otherwise, we will refill the order gratis, but we cannot guarantee the crop further, as there are so many causes over which we have no control, that let seeds be ever so fresh, weather and circumstances may cause a total failure, and while we use the greatest care to have all seeds pure and reliable, we do not give any warrant, expressed or implied. If the purchaser does not accept the seed on these terms they must be returned at once, and the money paid for them will be refunded.

C. O. D. ORDERS. Parties ordering goods to be sent C. O. D. must enclose with the order one-third of the amount, as a guarantee that they will accept the goods upon arrival; and all C. O. D. goods must go by express, as railroad companies will not do any collecting.

EXTRA PARTS. Parties sending us broken castings for patterns on repair orders must prepay express charges, as we cannot afford to pay express on old castings.

BAGS USED IN SHIPPING SEED. Two bushel bags, 15 cents; all other sizes, unless otherwise noted, 10 cents, which may be returned, provided they are in good condition and return express charges prepaid. Returned bags must always have the name of the sender on the tag.

HOW TO ORDER. Give your name, town, state and county, and do not forget the post-office, as that is the most important of all.

TERMS. As there are no means of our ascertaining the commercial standing of farmers at a distance, we must have cash with the order or some satisfactory bank reference, but the liberal discount we offer for cash will more than pay the customer for sending the money when they order the goods.

HOW TO SEND MONEY. There are a number of safe ways to send money by mail. Either by an Express or Post Office Money Order, or send check on your bank. We are not particular how it comes, as long as we receive it. Stamps are always acceptable, and very handy to send on small orders. Wrap them in oiled paper to prevent sticking.

ORDER EARLY. You may think it is because we are in a hurry to get your money that we advise ordering early. Not so; but early orders always get the best of attention, the best of stock, and the best of everything. As a great many varieties of vegetable seed are short on account of the wet weather last year, late buyers will get left, for the reason that there is not enough seed to supply the demand.

MARKET GARDENERS. Parties wanting ten or more dollars worth of bulk seed will do well to write us for market gardeners' prices, for on such orders, if received early, we can make lower prices than are quoted.

Do not forget to read our instructions in regard to seeds by mail. We explain it fully, and if you will follow our advice it will save you a great many delays.

Printed by Gilbert G. Davis, Worcester, Mass.

ROSS BROS.' RELIABLE SEEDS

VEGETABLES

SEEDS BY MAIL. WE PAY POSTAGE on all Seeds by the Packet, Ounce and Quarter-Pound, but, except in some instances where price quoted includes postage, all seeds sold by weight above a quarter-pound require an additional amount for postage at the rate of 8 cents per pound, and those sold by measure—Beans, Peas and Corn—require additional amounts as follows: Beans and Peas—Quart, 15 cents; Pint, 8 cents; Half-Pint, 4 cents. Corn—Quart, 10 cents; Pint, 5 cents; Half-Pint, 3 cents.

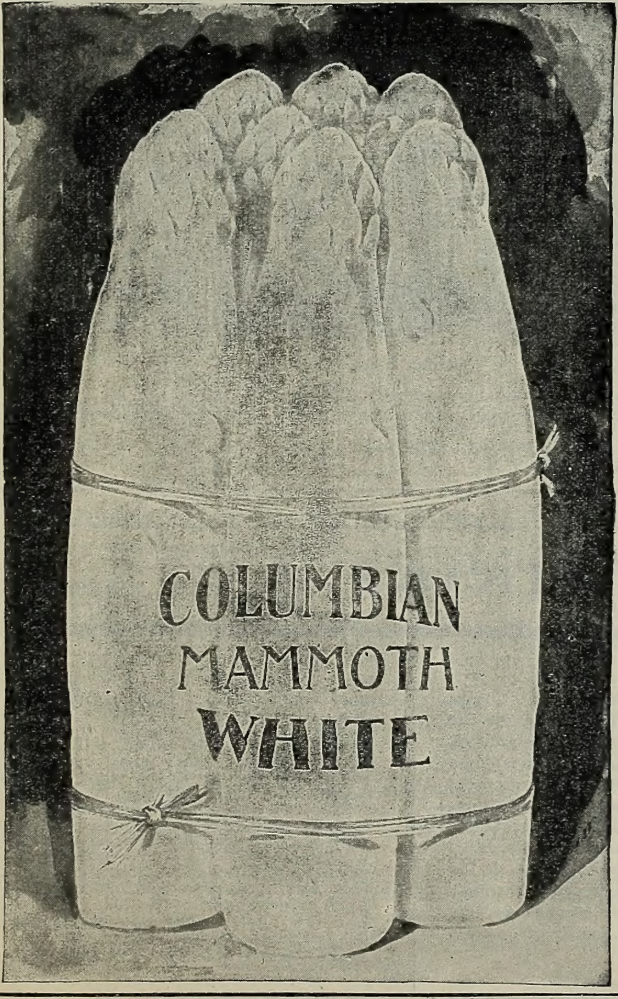
A CHANGE. Customers will note that we have discontinued the custom yet largely prevailing among seedsmen of offering Beans, Peas and Corn by the *Packet*, and now offer these by the Half-Pint. The term Packet must always be an indefinite one to the buyer and probably is often a disappointing one. We adopted our present method two years ago and are sure that it has met, and will continue to meet, the approval of our customers.

Special Offer of Seeds by the Packet & Ounce Only.

Purchasers of Seeds by the Packet or Ounce where the price quoted is *not over 10 cents per Packet or Ounce* may select such seeds as follows:

For **25c.** seeds may be selected amounting to **35c.** For **50c.** seeds may be selected amounting to **75c.**
For **$1.00** seeds may be selected amounting to **$1.60.**

Please bear in mind that this offer applies *only* to seeds by the *Packet and Ounce* and *only* to those of which the price is *not over 10 cents* per Packet or Ounce, and *does not* apply to seeds by the Quart or Pound. Customers therefore sending us mixed orders, that is for Packets and Ounces and Seeds in Bulk, either by the Quart or Pound, with an insufficient remittance, will only receive of the latter *the quantity covered by the remittance* after allowance has been made on the order for Packets and Ounces.



Asparagus

Barr's Mammoth. Originated in Philadelphia and very popular in that market. Claimed to grow twice as large and to be more productive than Conover's Colossal.

Columbian Mammoth White. A distinct and valuable variety. Stalks are very large and clear white until three or four inches high.

Conover's Colossal. An old standard variety, largely grown.

Donald's Elmira. A new and popular sort; originated in Elmira, N. Y., by Mr. Donald. Claimed by some to be the largest and of the best quality of all varieties.

The Palmetto. Claimed by the introducers to be much earlier and a better yielder than the Colossal, and more even and regular in growth.

Each variety—Pkt. 5c., oz. 10c., 2 ozs. 15c., ¼-lb. 25c., lb. 75c.

Asparagus Roots.

All varieties, by mail or express prepaid, per 50, 65 cents. By express or freight not prepaid, per 100, 80 cents; per 1000, $5.50.

Before Ordering Asparagus Roots, kindly read the following:

As it sometimes happens that the crop of some varieties of Asparagus Roots is very short, but which we are not always able to determine at the time of writing our catalogue, and also that toward the last of the season our stock of some is liable to be exhausted, we reserve the right to make substitutions of varieties without further notice. Customers, therefore, desiring that their orders shall be filled only as ordered will please so state distinctly in their orders, and we suggest that it would be well, especially when the season is considerably advanced, for customers to indicate what their preference would be in case our stock of the variety ordered was exhausted.

☞ Before Ordering, if you will Carefully Read what we say above regarding our Special Offer and Postage,
☞ IT MAY SAVE YOU A DISAPPOINTMENT OR DELAY.

BEANS DWARF or BUSH. Green Podded Varieties.

Extra Early Red Valentine. An old, well-known variety which, until the Mammoth Stringless became known, was considered the best green podded variety for snap or string beans. Pods round, meaty and tender. Plant usually healthy and very productive. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50.

Early Long Yellow Six Weeks. An old standard variety, used both as a string and shell sort. ½ pt. 8c., pt. 12c., qt. 20c.; 2 qts. 40c., ½ pk. 70c., pk. $1.25.

Early China Red Eye. Also an old and well-known variety. ½ pt. 8c., pt. 12 c., qt 20c., 2 qts. 40c., ½ pk. 70c., pk. $1.25.

Low's Champion. One of the best varieties for shelling. Beans when ready for use in their green state bright red, becoming darker when dry. Plant vigorous in its growth; less liable to blight or mildew than most other varieties; very productive. Several years ago we catalogued this variety, but the trade in New England demanding the colored or striped podded Horticultural type the call for this was so limited we were obliged to drop it from our list which we greatly regretted, as we believed it to be, and still think it is, one of the best if not the best variety for the private garden for shelling. As the public has in a measure learned its value and the demand has considerably increased we have again placed it on our list. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 75c., pk. $1.40.

HORTICULTURAL VARIETIES.

With Striped Pods—For Shell Beans.

Dwarf Horticultural or Speckled Cranberry. The standard green shell bean throughout New England. Beans oval, large, yellowish brown considerably splashed with red and of excellent quality. Pods yellowish green splashed with carmine, and when free from rust and blight very showy. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.75.

Best of All. Beans similar in color to the preceding, longer but smaller. Pods are six inches long, similarly marked, but not as bright and handsome. Of excellent quality and an abundant yielder. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50.

Crimson Beauty. Beans nearly identical in shape and color with the Best of All. Pods long, similar in coloring to the preceding two varieties but much brighter and showier than either. Vines are more nearly free from blight and more productive. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50.

Goddard or Boston Favorite. Beans large and long, similar in color to all Horticultural varieties. Pods long, yellowish green splashed with crimson. Very attractive and equal in size to those of many pole beans. Vines large, of strong, vigorous branching habit, inclined to run, and very productive. Later than preceding varieties. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50.

We wish to call attention to the fact that the supply of most seed beans is very short. Especially is this true of the Wax varieties, and regarding these all seedsmen are facing a condition which has never before existed. Prices, therefore, must be advanced, and like several other kinds of seeds to which we shall call attention in the following pages, it is only a question of time when the supply of these is exhausted.

WAX OR BUTTER BEANS.

Black or German Wax. One of the oldest wax sorts. Pods round, meaty, tender and of finest flavor, but small. More liable to rust than other good varieties, but when free from rust and blight few equal it in quality.

Currie's Rust Proof Black Wax. Beans brownish black; pods flat, of good length, showy and of fine quality. Well merits the name of rust proof.

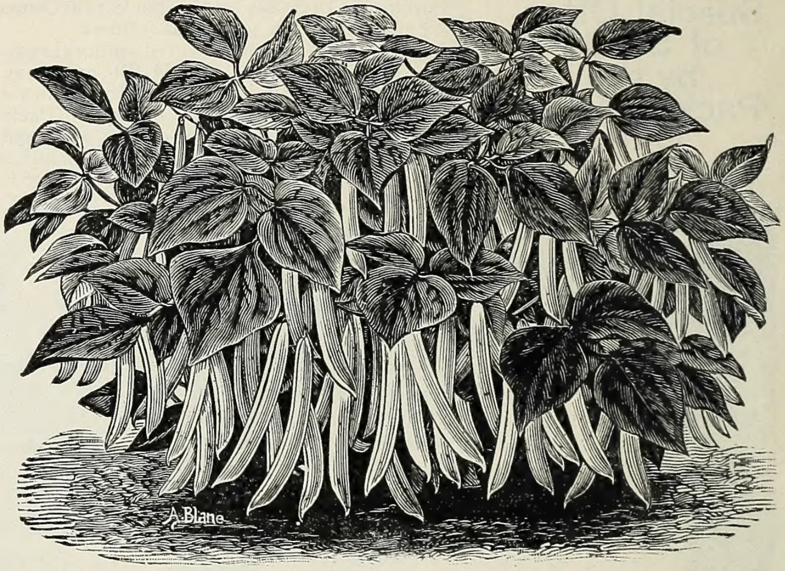
Golden Wax. For a long time the standard wax bean and still a general favorite. Pods long, nearly straight, flat, golden yellow with short green points, stringless, fleshy and tender. Beans medium sized, oval, ground white covered more or less with purplish red, different crops varying considerably in appearance, owing probably to soil or location in which they were grown. Plant vigorous and productive.

Golden Eye Wax. One of the best wax beans for the market gardener. Although not equal in quality to some others, its hardiness, entire freedom from rust, earliness and productiveness make it a profitable variety.

Detroit Wax. An excellent variety. Plant hardy and productive; pods straight, flat, but broader than the Golden Wax, of beautiful wax color when grown to a size suitable for use; keep crisp and bright long after picking, very seldom rust, and of good quality. Beans white, with a patch of brown about the eye, similar in shape to the White Marrow, and equally as good for baking.

Wardwell's Kidney Wax. Kidney form; color white, with dashes of light purple about a white eye. A valuable variety.

Davis' White Kidney Wax. Claimed by the introducers to be "earlier, hardier, more prolific, handsomer and a better seller than any of all the wax varieties," a claim which the opinion of many who have grown it, to a considerable extent, verify.

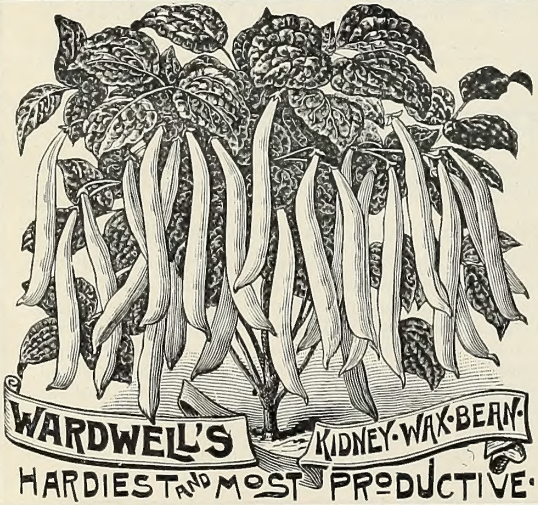


Golden Eyed Wax.

Valentine Wax. Probably the earliest wax bean. Pods round, similar to those of the Black Wax; tender and stringless.

Refugee Wax. Like the Green Podded Refugee very hardy and extremely productive. Pods long, round, meaty, tender, entirely stringless and fine flavored. The best round podded wax bean.

All wax varieties at uniform prices.—½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.75.
If desired by mail add for postage at the rate of 15 cents per quart.

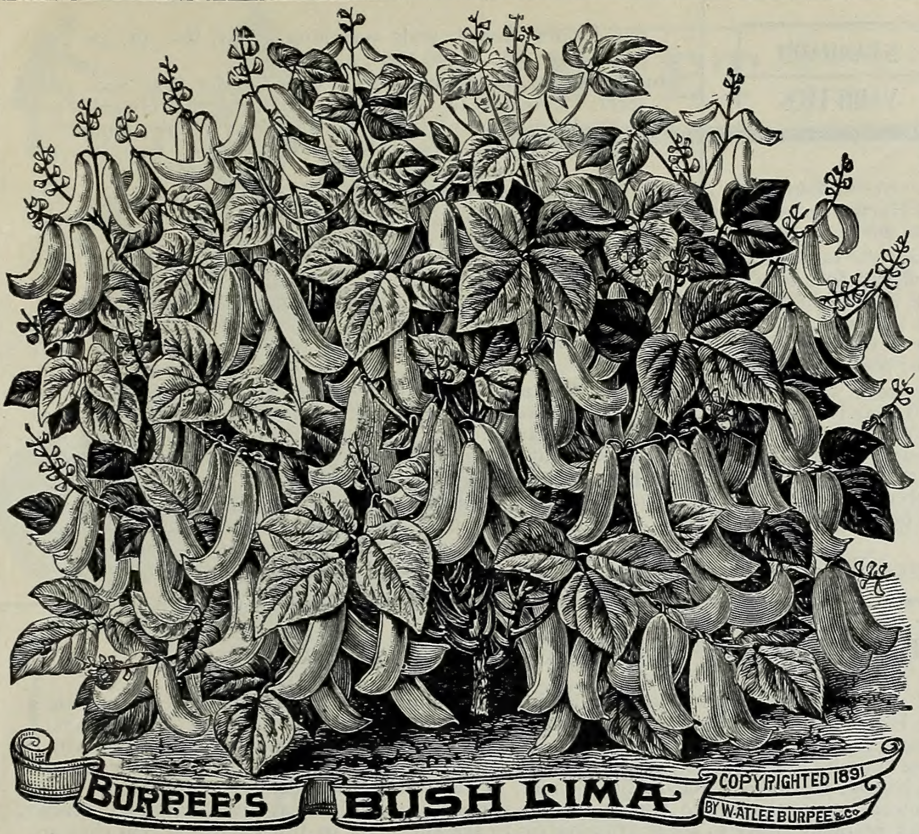


Two Varieties ☙ WORTHY OF . . . SPECIAL MENTION

Mammoth Green Pod Stringless. *Early, hardy, productive.* This is by far the best green podded snap or string bean, combining extreme earliness, hardiness and productiveness, with tenderness, entire freedom from strings, and thick meaty quality of pods. The superior excellence of this variety in the desirable qualities referred to makes it the most satisfactory green podded variety for either the home or market garden. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.65.

Improved Goddard or Boston Favorite. Has all the desirable qualities of the regular strain. *But is entirely free from runners.* Since its introduction the Goddard has always been a popular second-early sort, its hardiness, vigor, large beans, and long, straight, handsome, bright-colored pods making it so; but it has always had the vexing habit of running badly, a trait which prevented its use by some. In the Improved Goddard we have a variety in which this tendency has been overcome, making it a great improvement on the old. It also is a few days earlier and has better colored pods. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.65.

POSTAGE Is Not Included in Our Prices for **BEANS.** Therefore, when Desired by **MAIL** Amount Sufficient for Postage Should be **REMITTED. See Page I.**



BEANS DWARF LIMA

Henderson's Bush Lima. This variety is especially valuable on account of its earliness; a bush form of the Early Sieva Lima and has the small beans of that variety. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.65.

Burpee's Bush Lima. A bush form of the large Lima. Grows uniformly dwarf. Beans are equal in size and quality to the large Lima. By far the most popular of this class. ½ pt. 10c., pt. 20c., qt. 35c., 2 qts. 60c., ½ pk. $1.00, pk. $1.85.

Dreer's Bush Lima. A bush form of the Dreer's Improved Pole Lima, which is considered by many as the best of all the Limas. ½ pt. 10c., pt. 20c., qt. 35c., 2 qts. 60c., ½ pk. $1.00, pk. $1.85.

LIMA BEANS ✤ Pole or Running.

The Seibert's Lima was developed by a market gardener who selected the largest green beans from the thinnest and most easily opened pods. The vine is very productive and exceptionally hardy and vigorous. It produces pods very early and the beans are of fine quality. The green shelled beans are of immense size, but so tender and succulent that they shrink in drying to about the size of the Large White Lima. In earliness, ease of shelling, size, beauty and quality of the green beans, this new variety is in advance of all other sorts.

King of the Garden Lima. Vine vigorous and productive. Pods very large and well filled with large, white beans, succulent and fine flavored. On account of its large pods a general favorite with market gardeners.

Large White Lima. The old standard sort, yet largely grown, but being to a considerable extent displaced by the newer varieties.

Challenger, or Dreer's Improved Lima. A distinct variety; both pods and beans are shorter but much thicker than other sorts. The pods are borne in clusters, rarely have over four beans, often but three, in a pod, but are always well filled, so that a quantity of them will usually produce more beans than an equal quantity of any other variety. The beans are easily shelled, are of excellent flavor, slightly more mealy than other thinner sorts. The vine is of vigorous growth and very productive, does not produce pods quite as early as the flat pod sorts, but does not differ greatly in this respect from the preceding two varieties. A decided favorite with those who are acquainted with it.

All varieties at uniform prices.—½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 55c., ½ pk. $1.00, pk. $1.75.

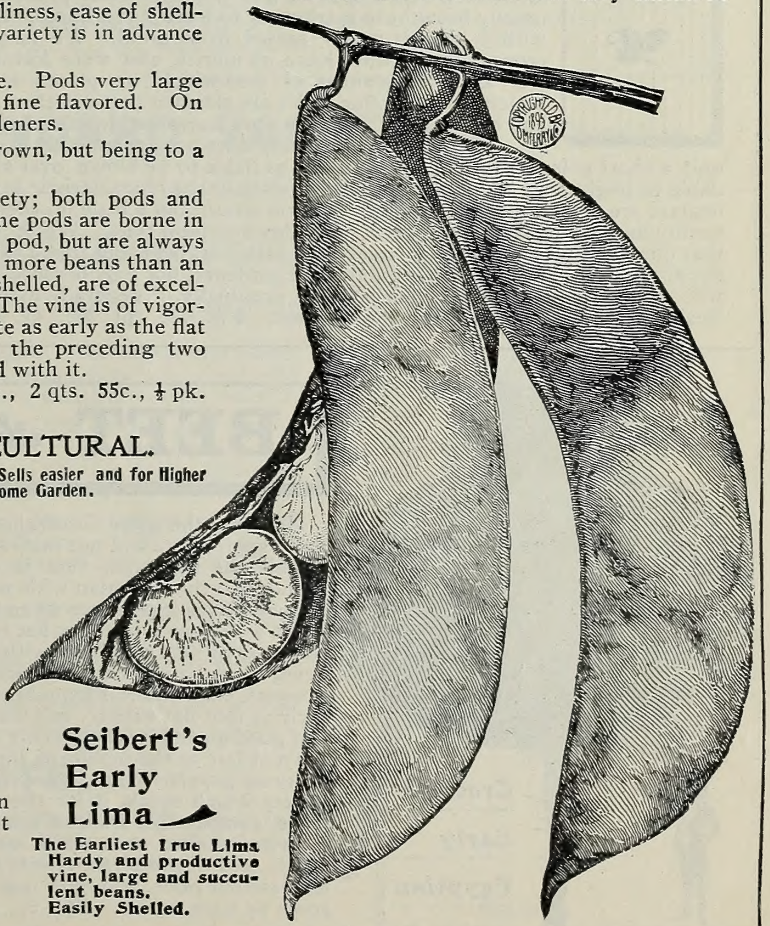
WORCESTER MAMMOTH POLE HORTICULTURAL.

The Largest and Handsomest Beans and Pods. Most productive and thrifty vine. Sells easier and for Higher Price than any other. Best for the Market Garden. Best for the Home Garden.

This variety, while similar in general character to the Horticultural Pole, is much superior in several ways. The beans though closely resembling those of the common strain are so much larger that, if that were the only point of excellence it would be alone sufficient to recommend it for general use, but its strikingly handsome pod combined with its great size are both features of excellence which still further recommend it. Added to these excellent qualities, are those of thrifty, vigorous growth of vine and great productiveness, all making it a variety especially desirable to the market gardener. It easily brings a higher price in the market than any other, and is not excelled by any other sort for the home garden.

We have an unusually large and fine stock of this bean and are enabled to considerably reduce the price from what it has generally been

½ pt. 10c., pt. 20c., qt. 40c., 2 qts. 75c.,
½ pk. $1.25, pk. $2.25.



Seibert's Early Lima

The Earliest True Lima. Hardy and productive vine, large and succulent beans. Easily Shelled.

Pint, Quart, Peck, Etc., are Definite Terms. Half-pint is equally so. Packet is not. We sell Half-pints, Not Packets.

BEANS Pole or Running — STANDARD VARIETIES

Horticultural, or Speckled Cranberry. A well-known standard variety. Beans similar to Dwarf Horticultural. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50.

Brockton Horticultural. This variety bears the same relation to the Pole Horticultural that the Goddard does to the Dwarf Horticultural. Beans and pods are both similar in shape and color to the Goddard. It is a vigorous, thrifty grower, productive, and well worthy a place in every garden. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50.

Concord Pole. An old variety, which, years ago, was a popular one, especially in the eastern part of this state but which, probably owing to the great demand for varieties with colored pods, has been largely displaced by them. Beans large, white with large blotch of yellowish brown around eye. Pod when fit for picking yellowish green. A productive and especially desirable variety for home use. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50.

Dutch Caseknife. An old, well-known variety. Beans white, flat, kidney-shaped; pods very long. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.65.

Indian Chief, or Black Wax. One of the best wax pole sorts. Remains in bearing longer than the Dwarf Wax. Beans large, round, black. Pods of waxy yellow, remaining in good condition longer than most varieties. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.65.

Old Homestead, or Kentucky Wonder. The earliest pole bean. The pod is very long, of a silvery green; entirely stringless, of good quality, and makes one of the best snap beans. It is enormously productive, the pods hanging in clusters from top to bottom of the pole. The beans are of a yellowish dun, of medium size, but, owing to the length and number of pods, the yield of beans is large. A very satisfactory variety for home use. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.65.

Scarlet Runner. Largely grown as an ornamental climber; its rapid growth and early production of dazzling scarlet flowers make it a favorite for covering screens, walls, etc. It is also of excellent edible qualities but rarely grown for that purpose.

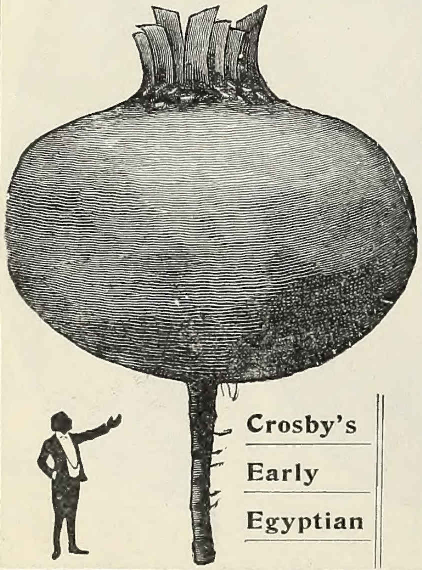
White Dutch Runner. Quite similar in general appearance to the preceding, differing only in color of flowers and beans, which are white; used both for ornamental and table use; early, productive and of excellent quality. Each variety, ½ pt. 10c., pt. 20c., qt. 35c., 2 qts. 60c., ½ pk. $1.00.

EXTRA EARLY POLE HORTICULTURAL ❧ A New Variety.

FOR SEVERAL YEARS a few market gardeners in the vicinity of Worcester have been growing a very early strain of the Pole Horticultural type with the result of being able to bring into market "Pole Beans," at least *two weeks earlier* than their competitors growing the ordinary strain. Like many other varieties which have been cultivated for some time by different persons before seed was offered for sale, is difficult to determine its origin. It is locally known both as Little Gem and Little Wonder. Our attention was called, a number of years ago while visiting a seed-grower, to a variety quite similar to this, if not entirely identical with it, but as it was so late in the season that we had no opportunity to see it growing or to see the pods in the condition that they are usually brought to market, or to learn its earliness, etc., as we since have, we were at the time so little impressed with it that it nearly passed from mind. We have, however, for several years, had opportunity to see growing crops, and therefore learn its merits, and were fortunate in securing, last spring, from a leading gardener of this city, a limited quantity of seed which we placed with a reliable grower who succeeded in obtaining a fair crop, which we now offer. We are satisfied that whether or not it is a new variety, that but few are familiar with it, and because of its merit we are warranted in introducing it as a new and valuable one.

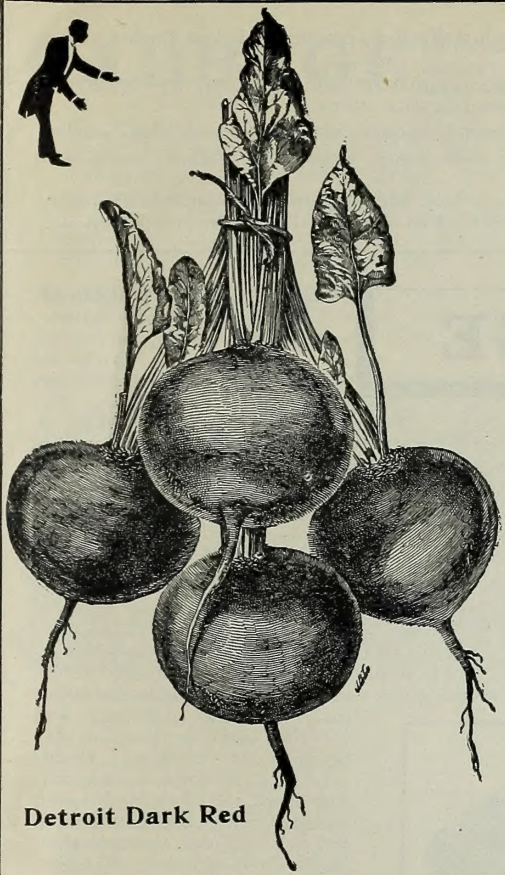
The vine, while thrifty does not grow nearly as tall as the common Pole Horticultural, therefore, requires only a short pole, which, of course, is not as liable to be blown over as a taller one. It is immensely productive, and we think less liable to blight than the old strain. The pods have the characteristic bright coloring of all the Horticultural varieties but to a greater degree, are a trifle shorter than the common strain, but a little broader and always well filled. The beans are fully equal in size and quality and identical in appearance with the common type. While these features are all desirable and serve to recommend it, that on which we lay the most stress is its *earliness*; believing that a variety so much earlier than any other of its class should receive the attention of both the market and home gardener, not only because it will afford profit to the smaller number of market gardeners who will probably first use it, but because, eventually, if generally used, it will considerably extend the season of Pole Horticultural Beans of which so many are extremely fond. ½ pt. 12c., pt. 20c., qt. 35c., 2 qts. 60c., ½ pk. $1.00, pk. $1.85.

BEET ❧ Crosby's Early Egyptian — The Best Early Beet for the Market Gardener



Crosby's Early Egyptian

Had only the name Crosby been given this variety it would, in our opinion, have been much more appropriate and not misleading as now called, for in only one respect does it much resemble the Egyptian, that is color, and even that is a little lighter. It is more nearly round than the Egyptian with none of its tendencies towards irregularity in form. It makes a much better appearance when bunched for market, and is decidedly of better quality. While it is a well known fact that flat roots are as a rule earlier than deep, round ones, there are some exceptions which are without doubt made and kept so by careful selections. This variety being essentially one for the market gardener, more attention has been given it by the seed growers, than to the Egyptian, and we have in this variety of nearly spherical form, one as early as that flat variety, and which in every other way excels it. Owing to its quick growth and good quality it is now being used to some extent for the last sowing for winter use, seed sown as late as the middle of July on rich soil often producing roots of good marketable size. Its great popularity has, however, been gained as an extra early, and we have yet to see a variety which equals it for that purpose. We have yearly grown this beet and have often made comparative trials of other so-called fancy strains, but have yet to find one which in anywise excelled ours while we have found some which were inferior in various respects. While seed of this strain is very scarce this year we have not considered it necessary to greatly increase our price, and offer it at only a slight advance from the low price which for several years we have sold it. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c., ½ lb. 35c., lb. 65c.



Detroit Dark Red

BEET

Two Varieties Possessing that Quality so Desirable both to the Market Gardener and Amateur, RICH DARK COLOR.

Detroit Dark Red. So nearly in accord are we with the introducers' claims and description of this valuable variety that we quote what they say of it as follows: "Long experience has shown this variety of our own introduction to be the best deep red turnip beet, not only for market gardeners, but for the home garden. Its small upright-growing tops, early maturing, and the splendid shape and color of the roots, make it popular with every one who plants it. Tops small, upright-growing, so that the rows may be close together; leaf-stems and veins dark red, blade green, roots globular or ovoid, peculiarly smooth; color of skin, dark blood-red; flesh bright red, zoned with a lighter shade, very crisp, tender and sweet, and remaining so for a long time."

The only possible objection to this variety would be that it has a tendency to the ovoid form rather than the globular, a feature which, perhaps is a sectional objection rather than a general one. A large part of our trade demands a beet as nearly round as possible and which we supposed was general, although aware that the longer types were used to some extent in other sections. How be it, this, if an objection, is so slight an one that it has not prevented us from having a constantly increasing trade since we began to sell it, its rich deep color more than off-setting any possible objection to its shape.

Crimson Globe. A new comer, claimed to be the best of the Early Round Deep Crimson Varieties. As early and far superior to the Egyptian. In reply to our inquiry regarding the merit of this beet, and especially whether it would be desirable for fall planting as well as early, a prominent seed grower has this to say of it: "The Crimson Globe Beet is really an early variety, but also a very good one for general crop. It is of good shape and deep color, and is just what is needed for fall planting. The Egyptian planted in the fall does not grow smooth, while this grows very smooth and is perfectly round or globular. The flesh is dark, if anything, darker than the Eclipse, while the skin is, although a shade lighter, of a crimson, resembling that of the Mangel Wurzel. It grows to a fair marketable size, of course not as arge as the old Dewing, and I do not think you would care to have it. Everyone with whom I have come in contact, who have seen the Crimson Globe, like it, and in my opinion it will fill the bill for what you are seeking—a deep-colored, medium-sized variety, good for late as well as early planting."

Each of above, pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c. lb. 60c.

BEET ❧ STANDARD VARIETIES.

Early Egyptian. One of the earliest, roots flat, of a deep crimson, tops small, permitting it to be planted closer than other varieties, therefore especially desirable for forcing as well as for first open ground planting.

Eclipse. One of the earliest globe-shaped varieties, with rather small tops and small tap root, blood-red; of excellent quality.

Bastian's Early. A very quick-growing sort, of superior flavor, very tender and sweet, tops of medium size, leaves green, stem pink, roots red, flesh purplish-pink zoned with white; on account of its light color not as popular as its quality would otherwise make it.

Faust's Early Crimson. This is also known as Mitchell's. A first early of good quality and form, and as its name indicates, of deep color.

Arlington Favorite. An excellent variety of globular form and deep color, especially desirable to follow the first earlies.

Edmand's Early Blood Turnip. Somewhat similar in general character to the Dewings, both being a great improvement on the old Blood Turnip. This has smaller tops than either, is of fine globular form, deep color and superior quality. Used largely for main crop and winter use.

Dewing's Improved Blood Turnip. A decided improvement of the old Blood Turnip, has smaller tops and is of better color.

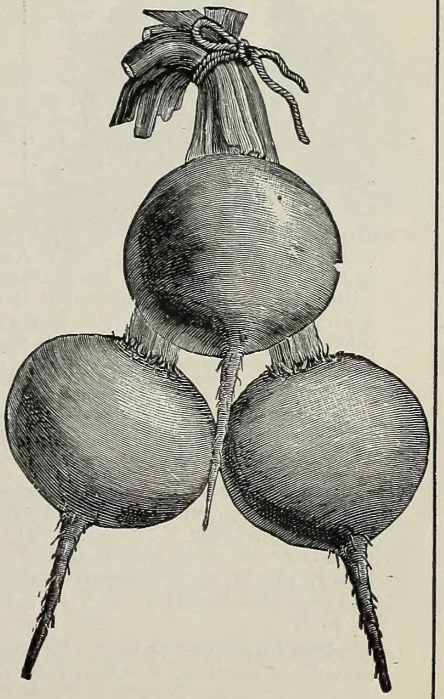
Swiss Chard. Used for Greens only, like Spinach, at first entire, later the leaf stalks are sometimes used separately, cooked like Asparagus.

All varieties at uniform prices except where noted. Pkt. 5c, oz. 10c, 2 oz. 15c, ¼ lb. 20c, lb. 50c.

BRUSSELS SPROUTS.

A very hardy plant of the Cabbage family, growing from two to three feet high, producing at the axils of the leaves the whole length of the stem small heads about two inches in diameter, resembling a cabbage and considered by some to be of finer flavor.

Best Imported. Pkt. 5c, ½ oz. 10c, oz. 15c, 2 oz. 25c, ¼ lb. 40c.



ECLIPSE.

SUGAR BEET AND MANGEL WURZELS

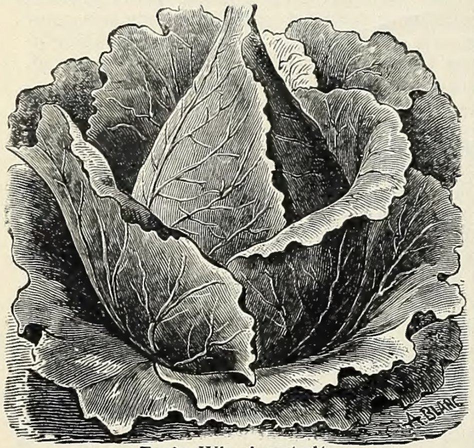
Lane's Sugar. An improvement on the old white French, recommended as hardier and as containing a larger percentage of sugar.

Mammoth Long Red Mangel. A variety of mammoth size; skin light red, flesh white and rose. Grows well out of ground; extensively used in all sections.

Norbiton Giant Long Red. Similar to the preceding; has smaller top and neck; flesh scarlet.

Golden Tankard. Top and neck very small; root ovoid, large; flesh yellow, zoned with white; an excellent sort.

Orange Globe. One of the best, top small, root medium size, skin deep orange yellow, flesh white. Grows almost entirely out of the ground; good for shallow ground; easy to harvest. Prices uniform on all: ¼ lb. 15c., ½ lb. 20c., lb. 35c., 5 lb. lots per lb. 30c.


Early Winningstadt.

CABBAGE

Early Jersey Wakefield. The standard early variety. Heads conical, very compact and solid. Can be set closer than most varieties. Pkt. 5c, ½ oz. 15c, oz. 25c, 2 oz. 40c, ¼ lb. 70c, lb. $2.50.

Charleston Early Wakefield. A selection of the Jersey Wakefield, a few days later but much larger. Pkt. 5c., ½ oz. 15c., oz. 30c., 2 oz. 50c., ¼ lb. 85c., lb. $3.00.

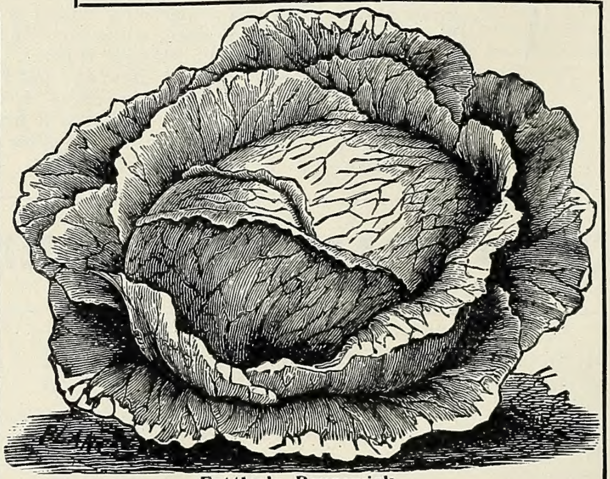
Henderson's Early Summer. An early large heading sort. Heads flat, sometimes slightly conical with large outer leaves; very popular with market gardeners, and an excellent variety for the home garden.
Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 70c., lb. $2.50.

Henderson's Succession. Claimed by the introducers to be "the finest cabbage in existence." Very similar to that excellent variety, the All Seasons. Matures about ten days later than the Early Summer.
Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 70c., lb. $2.50.

All Seasons. A variety which for reliability in heading is not exceeded by any other, if indeed equaled. Its rapid growth and good size make it desirable for either early or late planting, and for the latter purpose it has become very popular. Heads are large and solid, round, flattened on the top, and when mature will remain longer in the field without bursting than most other varieties. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c., lb. $2.00.

Early Winningstadt. Heads large, cone-shaped and solid; one of the best for all soils. Pkt. 5c., ½ oz. 10c., oz. 15c., 2 oz. 25c., ¼ lb. 40c., lb. $1.40.

Fottler's Improved Brunswick. The earliest of the large heading Drumheads; in great favor with market gardeners in all sections. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c., lb. $2.00.


Fottler's Brunswick.

Premium Flat Dutch. An old well-known variety, yet very popular. Heads flat, large and solid. Very reliable in heading. Pkt. 5c., ½ oz. 10c., oz. 15c., 2 oz. 25c., ¼ lb. 40c., lb. $1.40.

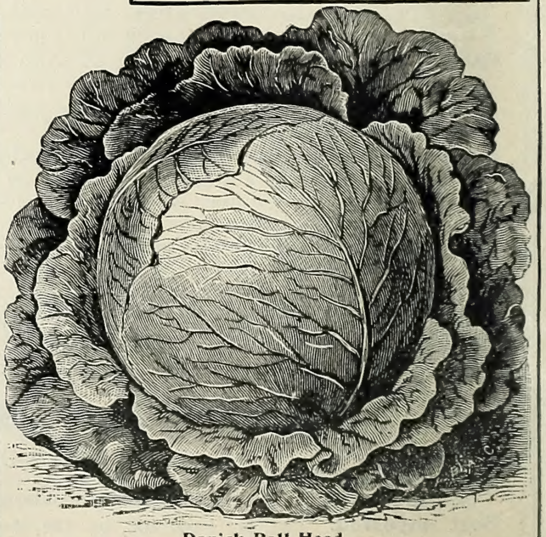
Warren Stone Mason. An improvement on the Stone Mason which for years was one of the most popular varieties in New England. This is earlier, more nearly round and more solid; one of the very best for winter use. The seed we offer was grown by one of the most reliable growers in New England, who originally obtained his stock from headquarters and who has exercised the greatest care in selection and keeping it true to type. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c., lb. $2.00.

Autumn King. Claimed by the introducers to be the best late cabbage in the country. They say of it: "The Autumn King is an entirely distinct variety and the best keeper we have ever seen; it produces enormous solid heads with such small outer leaves that it can be planted much closer than the ordinary late sorts, and will produce a greater weight of crop per acre than any other variety, from the fact of its producing so few outer leaves and going all to head. A distinct feature of the Autumn King is the peculiarly crimped leaves." Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 70c., lb. $2.50.

Marblehead Mammoth. A late variety, the largest of all cabbages; heads have been grown weighing sixty pounds. Pkt. 5c., ½ oz. 10c., oz. 20c., 2 oz. 35c., ¼ lb. 60c., lb. $2.00.

Danish Ball Head. A variety grown almost exclusively in Denmark for winter use; extremely hardy and very reliable in heading if planted on strong, well-enriched land. The stumps of this and other foreign varieties are longer than our native sorts. Heads are of medium size, round, very hard and heavy, averaging one-fourth heavier than other varieties; of the best quality, and excellent keepers. Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 70c., lb. $2.50.

American Improved Savoy. An improvement on the Green Globe Savoy; very reliable for heading. Pkt. 5c., ½ oz 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c., lb. $2.00


Danish Ball Head.

Competition FORCES US TO SELL **Good Seeds at Fair Prices** AND OFTEN AT SMALL PROFIT, BUT IT NEVER HAS NOR EVER WILL COMPEL US TO SELL POOR SEEDS.

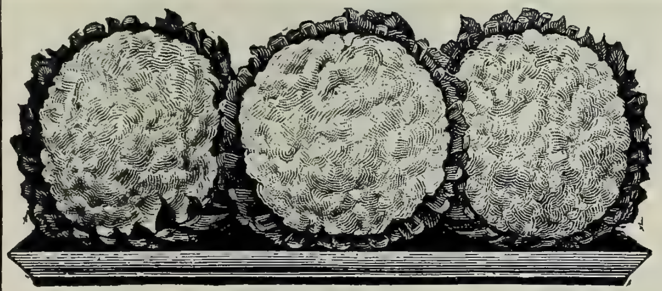
CABBAGE
(Continued)

Hollander, or German Export. This is also an imported variety with similar characteristics to the preceding, some claiming that it is even hardier than the Danish Ball Head, and that it will endure frost and drought that would destroy any other cabbage. It is late in maturing, an excellent keeper and of the best quality. For best results both this and the preceding should be sown at least two weeks earlier than other winter varieties. Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 70c., lb. $2.50.

Luxemburg, or Hard Heading. Heads medium size, nearly round and of good quality; outer leaves slightly tinged with red. Excellent as the two preceding varieties are, the Luxemburg is thought by some to exceed them in hardiness and solidity and especially in keeping. An old and very reliable seed firm say:—"This is the king of all cabbages for late spring selling, and those who raise it will have the markets of late spring entirely to themselves." Like the Danish Ball Head and Hollander, it should be planted earlier and soil should be richer than for most other varieties. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c., lb. $2.00.

Mammoth Rock Red. The best, largest and surest heading Red Cabbage. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c., lb. $2.25.

Red Dutch. An old well-known variety; heads not large but very solid. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c., lb. $2.00.

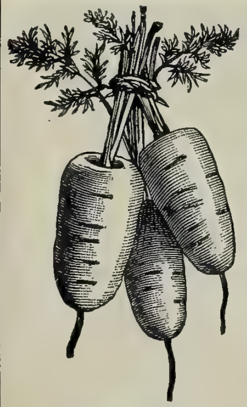


CAULIFLOWER

Early Snowball. The earliest variety and the surest to head. It is probably more largely grown than all other varieties combined, not only for early use but late as well, and has to a great extent displaced all of the once popular late sorts. Owing to its compact habit and few narrow and upright leaves it is the most desirable for forcing, and, for the same reason, can be set much closer in the field than others. Were there no other variety in existence we should all be fully as well off, and probably better. It would be difficult to imagine a better one, unless one could be originated that would head under the unfavorable conditions that sometimes prevail when no variety succeeds. We offer a strain of seed, which, in spite of the claims put forth by some that they have the only pure and reliable seed, we yet claim to be *true and reliable;* a claim which we could easily substantiate, and in a convincing manner to any who are open to conviction, *by the results obtained by those who have used it.* While good seeds cannot, as a rule, be sold at extremely low prices it is, nevertheless, a fact that an exorbitant price does not necessarily make any article good or better. Neither our claims nor those of others are of value unless they can be proven to be true,—results only can prove them. These our customers have found entirely satisfactory and equal in all respects to those obtained from seed claimed to be *the only reliable* and for which they formerly paid nearly twice what ours cost them. Pkt. 20c., ¼ oz. 65c., ½ oz. $1.25, oz. $2.25.

Extra Early Paris. Heads large, white, compact and solid, of excellent flavor; a favorite with market gardeners. Pkt. 10c., ¼ oz. 40c., oz, 75c.

Half Early Paris. Not as early as the preceding variety. Heads large and compact, of good quality. Pkt. 10c., ½ oz. 35c., oz. 60c.



Early Horn.

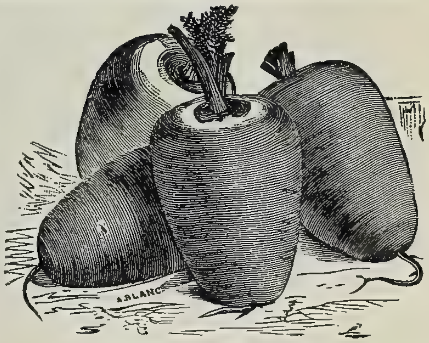
CARROT

Early Scarlet Horn. A popular early variety, grown only for table use. The roots are about three inches long and one-half inch in diameter at top, tapering slightly and terminating abruptly like the larger stump-rooted varieties. They make an attractive bunch, are of excellent quality and have small tops. Pkt. 5c.. oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 90c.

Chantenay. This is an excellent variety for bunching. The roots are five inches long, three inches in diameter at the top, tapering gradually, but uniformly stump-rooted. The flesh is tender and crisp, color deep orange. The tops are of medium size, and necks small. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 90c.

Oxheart, or Guerande. Roots very thick, often over five inches in diameter at shoulder, tapering to not less than two inches at the stump-root, and about five or six inches in height. The flesh is very fine-grained, free from core, tender and sweet. Color, bright orange. An excellent variety for either table use or for stock, and especially suited for hard, stiff soil, where longer growing varieties seldom thrive. Pkt. 5c., oz. 10c.. 2 oz. 15c., ¼ lb. 25c., lb. 85c.

Danvers. This for a long time has been, and is yet, the most popular variety. It is used for bunching for market early in the season, and later for packing in boxes or crates. It is also extensively grown for stock. While the yield per acre would probably not be as large as from the Rubicon or Long Orange, it, like the first, succeeds better on shallow soils and on stiff, hard ones, than the Long Orange; is much easier harvested than the latter, and of much better form and more attractive in appearance than the former. This latter feature, of course, makes it more desirable for market, although of no more value for feeding, and its popularity for feeding is perhaps largely due to a want of acquaintance with the Rubicon. The roots are about two inches in diameter at the shoulder, and five to six inches long. The flesh is fine-grained, tender and sweet. The tops are of medium size and the neck small. Our strain is one which we have sold for a long time; has the rich, dark color so much desired by the trade, and runs very uniform and true to name. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 85c.

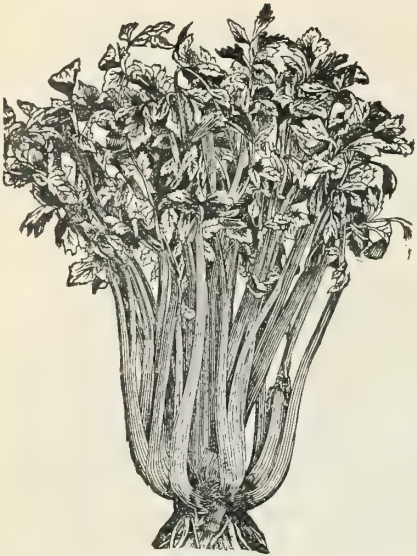


Ox Heart, or Guerande.

Rubicon. This new variety is similar in form to the Ox Heart, but much thicker and longer. It is also earlier, larger and, therefore, heavier than the Danvers, and, while we are not disposed to in any way disparage the excellence of the Danvers, we consider the Rubicon the superior variety for growing for stock, because of its greater weight the yield per acre would be larger, and as the roots, like the Danvers, are short it is as equally desirable for shallow, or stiff, hard, soils. It has fewer and finer leaves than the Danvers; has no neck, growing hollow-crowned, and is very uniform in growth. It is of good color and quality, but will probably never be a popular market variety, lacking attractive form. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 75c.

Long Orange. An old, well-known and popular variety, and on soils adapted for it—that is deep, mellow ones—the heaviest cropper of all. It is largely grown for stock, but to some extent for market. The roots are very long, smooth and handsome, holding their thickness well down, tapering gradually to a point. The main improvement in it is a slight shortening of the root, with perhaps a deeper color. Our strain is of the desired color and true to name, is one which we have sold for years, and we have yet to find one which in anywise surpasses it. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 85c.

Large White Belgian. Grown only for stock feeding, The root is pure white and grows one-third above the ground, the color of that part being green. Tops small; roots, on rich soil, large; flesh rather coarse. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c., lb. 50c.

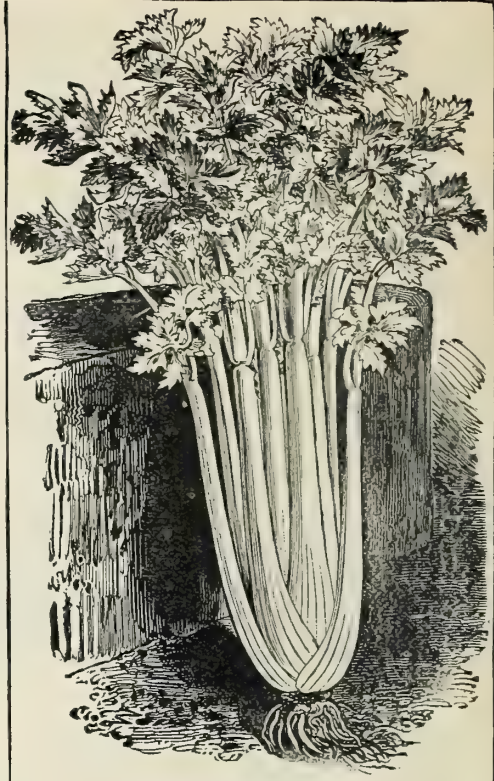


Boston Market.

CELERY

White Plume. The earliest and most easily blanched of all varieties; requires little banking-up to make it fit for market, belonging to the self-blanching class; but, in our opinion, it, like all celeries, is of much better flavor when blanched with earth. A desirable variety for early fall use, but does not keep well; very showy and beautiful, but not more so than the *Golden Self-Blanching*, and not equal to that in several other respects. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c.

Pink Plume. Nearly identical with the *White Plume*, except the tinge of red on the leaf stalks, which fades to faint pink when blanched. Like the White Plume it is easily blanched and is of better quality. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c.



Golden Self-Blanching.

Golden Self-Blanching. The most popular variety in cultivation. It is nearly as early as the *White Plume*, is generally considered to be of better quality and flavor, and has to a considerable extent displaced it. It is of dwarf, compact habit, and, when grown in rich, moist soil and under favorable conditions, produces more large, thick stalks than other varieties, in such cases requiring but two plants to make a bunch, whereas it usually requires three or more of other varieties. It is self-blanching to a remarkable degree. When young the plant is of a yellowish-green, blanching to a deep, golden-yellow, and the inner stalks to nearly white. It is, when ready for market or the table, a thing of beauty as well as utility, and a most decided ornament to any table. We offer a proven strain of seed. Pkt. 10c., ½ oz. 20c., oz. 35c., 2 oz. 65c., ¼ lb. $1.20.

Rose Ribbed Paris. This variety in general character resembles the *Golden Self-Blanching*, differing, however, in a few features. It is even more compact in growth, and the stalks are a little larger. The color is a beautiful golden-yellow, slightly deeper than the Golden Self-Blanching, especially the upper portions of the inner stalk; but that which makes it the most distinct and more beautiful is the tint of red on the stalks. At the base, this is more nearly a pink, but deepens into a carmine line on the ribs. The outer leaves are green, shading into deep yellow at the center. It is practically stringless, is crisp, tender and fine flavored. It is nearly as early as the preceding and as easily blanched. Its attractive appearance, large size and superior quality entitles it to first place in the list of self-blanching varieties and warrants a more general cultivation. Pkt. 10c., ½ oz. 20c., oz. 35c., 2 oz. 60c., ¼ lb. $1.00.

Boston Market. An old standard variety, for many years grown more extensively for Boston market than any other. It is noted for its tenderness and flavor. It is peculiar in its growth, forming a cluster of heads instead of a single large one. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 60c.

Boston Market. Selected stock, Arlington grown. Pkt 10c., ½ oz. 25c., oz. 40c., 2 oz. 75c., ¼ lb. $1.25.

Giant Pascal. This is a green leaved variety, which was developed from the Golden Self-Blanching. It is much larger, a better keeper and of superior flavor. It grows about two feet high, has very broad and thick stalks, which are stringless. It has a peculiarly sweet and nutty flavor, entirely free from any bitter taste. It blanches quickly after banking-up. Pkt. 5c., ½ oz. 12., oz. 20c., 2 oz. 35c., ¼ lb. 60c.

Celeriac, or Turnip-rooted Celery. The roots only of this are used, either boiled or sliced for salads, or for flavoring soups.

Erfurt Giant. Pkt. 5c., ½ oz. 10c., oz. 15c., 2 oz. 25c., ¼ lb. 40c.

CRESS, OR PEPPER GRASS.

Curled. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c.

SWEET CORN

A New Variety.
THE METROPOLITAN.

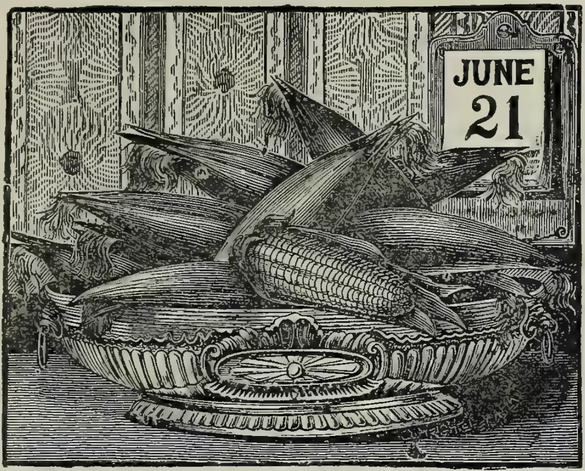
The introducers say of it: "It is only two days later than Cory, which, until now, has been the earliest sort.

"The plant is distinct, being very strong in stalk, growing 5½ feet in height. The leaves are numerous, narrow and very dark green in color. The ears are all set low, not over 1½ feet from the ground, producing from two to three to the plant. They are uniformly 9 inches long, 10 to 12 rowed, well filled to the tip with large deep grains, which are very tender. It is not merely sweet, but possesses in a remarkable degree that exquisite richness so well-known in the larger and later sorts. We should add that an ample husk fully insures its value as a shipping variety; indeed, the combination of good qualities possessed by it makes it the most desirable of all for early trucking."

While the above claims and descriptions are in general correct, we take exception to the statement that it is only two days later than the Cory. All those who are at all familiar with the Champion and Kendel's know that they are from a week to ten days later. We have found that the Metropolitan ripens with them. That this is correct is verified by the statement made by the Everett B. Clark Co. of Connecticut, the largest growers of sweet corn in New England, who in reply to an inquiry of ours as to the general characteristics of the Metropolitan said: "We find the Metropolitan and Kendel's ripening the same day with the Champion, perhaps one or two days later. The Metropolitan is perhaps a little more slim and longer eared and a trifle more dwarf in habit of stalk." This, while undoubtedly the truth, does not greatly detract from its value and should not prevent any from a just consideration of its many good qualities or from a general use of it. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 40c., ½ pk. 65c., pk. $1.00, bush, $3.50.

WE AIM TO HAVE OUR DESCRIPTIONS ACCURATE. If your experience convinces you that they are not, BE SURE AND TELL US.

CORN. ☙ Sweet or Sugar.



FIRST OF ALL.

The First of All. The earliest variety. A selection of the Cory, a very little earlier, next in popularity to that well known sort.

The Cory. The most popular early variety, cobs mostly red, kernels from deep pinkish cast to white, ears eight-rowed and of fair size, of medium quality and a good yielder.

White Cob Cory. A selection of the preceding, with only pure white kernels and cobs; larger and sweeter.

Early Minnesota. An old standard sort. Kernels white and very large for an early sort. Ears of medium size.

Early Crosby. An early variety and one of the most popular ones in cultivation; for years the standard early sort in Boston market. Follows closely the preceding varieties. Kernels white, small and remarkably sweet and tender. Ears rather short, wtih twelve to sixteen rows.

New Early Champion. The earliest large sweet corn yet introduced, being only a few days later than the first early small sorts. Twelve-rowed, with pure white kernels.

Kendel's Early Giant. A very large variety considering its earliness. Kernels white, ears well filled out and showy; of good quality.

Shaker's Early. Claimed when introduced to be as early as Minnesota. We have never found it so, but consider it very early for so large an eared variety. Of good quality.

Moore's Early Concord. Not quite as early as preceding varieties, but has a very large ear, with twelve to sixteen rows. Popular in New England as a second early sort, and often planted for main crop.

Black Mexican. A variety when ripe with blueish black kernels, but when in suitable condition for eating cooks white. But few varieties equal it in tenderness and sweetness. Ears of medium size. It is ready for use about with the Concord.

Potter's Excelsior or Squantum. Known by the first name for years in Boston market, where it was very popular. Used extensively in Rhode Island, where it was named Squantum. Ears of medium size. A standard of excellence in tenderness and sweetness, and is yearly increasing in popularity.

Country Gentleman. A medium late variety, having irregular rows. Has a very small cob and deep kernel, is tender and sweet; very desirable for the home garden.

Marblehead Mammoth. The earliest, sweetest and largest of all the Mammoth sweet varieties.

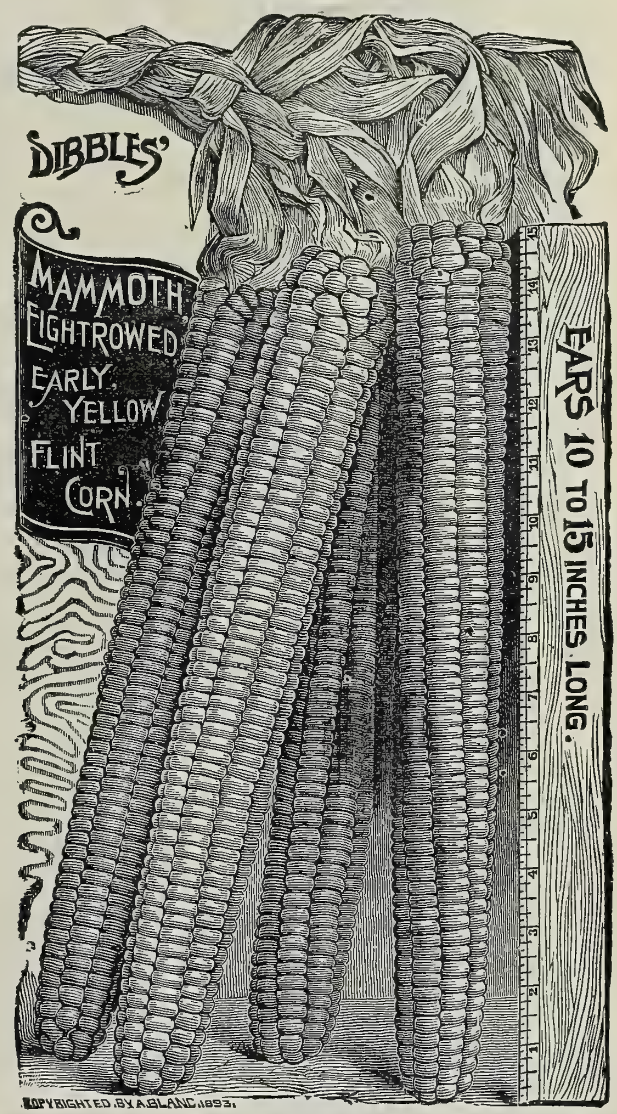
Above varieties each, ½ pt. 8c., pt. 12c., qt. 20c., 2 qts. 30c., ½ pk. 50c., pk. 90c., bush. $3.50.

Stowell's Evergreen. More largely used than any other late variety. Ears large, kernels very deep and shriveled. ½ pt. 8c., pt. 12c., qt. 20c., 2 qts. 30c., ½ pk. 50c., pk. 85c., bush. $3.00.

Stowell's Evergreen. For fodder. Bush. $1.40; 2 bush. $2.50.

CORN. ☙ Field, Fodder and Ensilage.

Dibble's Mammoth Early Flint. This is a selection of the Longfellow, combining earliness and large size. Under ordinary treatment this has produced some very large crops, having yielded at different times 140 to 160 bushels per acre with only 500 pounds of Mape's Corn Manure. Pk. 50c, bush. $1.75.


DIBBLES'
MAMMOTH EIGHTROWED EARLY, YELLOW FLINT CORN.
EARS 10 TO 15 INCHES LONG.
COPYRIGHTED. BY A. BLANC. 1893.

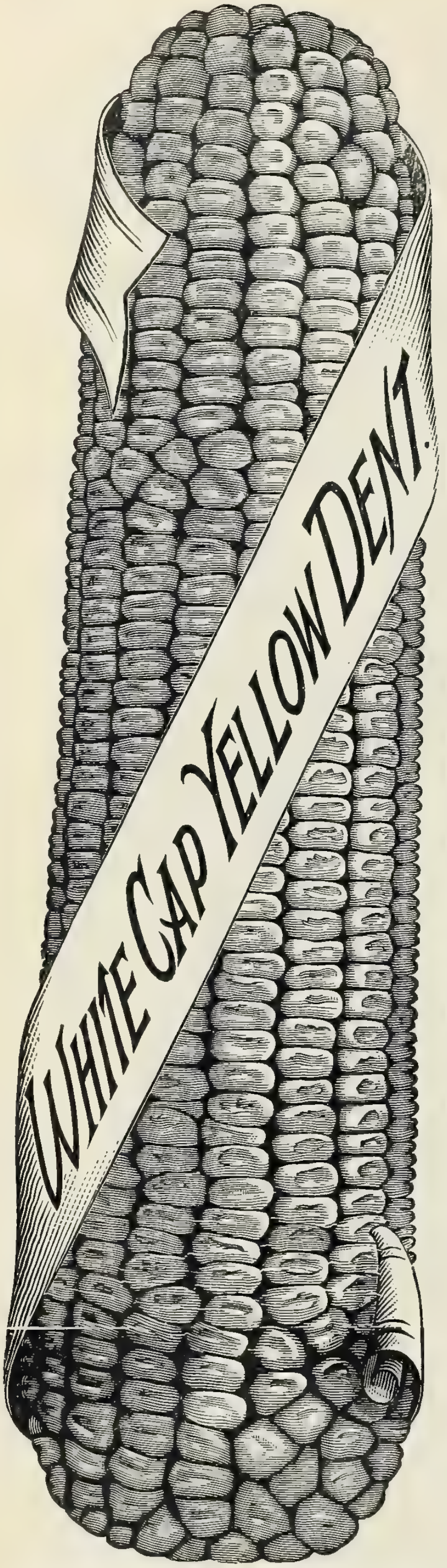
Two Varieties of Sweet Corn of Special Merit.

MAMMOTH WHITE CORY. Introduced by D. M. Ferry & Co., whose description we quote. "The largest and Best Extra Early Sweet Corn. The stalks are no larger than those of the White Cob Cory, but each stalk furnishes two or more large, fine shaped ears which are fit for use before those of any other sort. The ears are twelve-rowed, very symmetrical and handsome, with no opening between the rows at the base. The grain is large, broad, very white and of remarkably good quality for such an early sort. The beauty and quality of this variety give it ready sale even when the market is over-stocked."

FERRY'S EARLY EVERGREEN. Also introduced by D. M. Ferry & Co., who say of it: "We have tested many samples of Evergreen Corn that were claimed to be earlier than Stowell's Evergreen, and to be just as good, but we have never found any of them valuable. For the past six years we have been developing this variety which we offer with the statement, backed by careful tests made both in the trial grounds and in the field, that it will furnish ears fit for use much earlier than Stowell's Evergreen. The ears are like the Evergreen, very large, with about eighteen, more or less, irregular rows and a very long grain, which is of the very best quality. It remains in condition for use longer than other sorts, exceeding the Stowell's in this respect. The plant and ear would be pronounced by observers to be a fine stock of the old variety, though fit for use one to two weeks earlier." **Each of above,**

½ pt. 8c, pt. 12c, qt. 20c, 2 qts. 35c, ½ pk. 60c, pk. 90c, bush. $3.50

We Do Not PREPAY POSTAGE on Corn, Beans or Peas. When Ordering BE SURE AND REMIT SUFFICIENT AMOUNT For Postage.


WHITE CAP YELLOW DENT.

CORN
FIELD, FODDER and ENSILAGE.

THE following varieties are those which have been well tried and have been proven to be the most desirable. The seed we offer was grown for us on contract by the most reliable growers, and has all been tested as to its germination. In connection with these we offer other species of the Corn or Maize family which have lately come into favor for fodder and ensilage, and suggest also a persual of the page of Miscellaneous Seeds and Grains suitable for such uses, and as well our list of Millets, some of which, **especially the** new Japanese, are coming more and more into popular favor for these purposes.

Improved Canada. Known also as the Early Demond, Deerfield, Greenfield or Connecticut Valley. This differs from the common Canada, or Canada Cap, in that the ear is about two inches longer. Like that, it is eight-rowed, and early enough to mature a crop in any section where corn can be profitably grown. Pk. 50c., bush. $1.75.

Longfellow. An eight-rowed, yellow flint sort, with ear ten to twelve inches long. The cob is quite small, with kernels of good size. Considered safe for planting in Massachusetts. Pk. 50c., bush. $1.75.

Sanford White. A white flint variety, used considerably in Rhode Island for grinding both for stock and culinary purposes, and very extensively used in Vermont for ensilage. Pk. 35c., bush. $1.25. Extra selected seed, pk. 40c., bush. $1.50.

Pride of the North. A Dent variety which is very early. Will mature a crop in this section easily, unless season is very unfavorable. Ears are rather small for a Dent variety, about eight inches long, having from twelve to sixteen rows. Stalks are from six to eight feet high. Also used for ensilage. Pk. 40c., bush. $1.50.

White Cap Yellow Dent. Nearly as early as the Pride of the North; with large ears. The grower and introducer of this wonderful corn says he will guarantee this corn to mature in ninety to ninety-five days from planting, and to grow a larger crop on poor soil than any other corn in the world. Stalks are six to seven feet high, with abundance of foliage, making it an excellent sort for ensilage. Ears are from eight to ten inches long, well filled out and have from sixteen to eighteen rows. Kernels are of the true Dent type, sweet and nutritious, the outer end white and the balance yellow, which gives it the name "White Cap." Pk. 40c., bush. $1.50.

Early Mastodon Dent. A very early, strong growing corn, with exceedingly large ears and grain. In the *American Agriculturalist* corn contest, in 1889, it outyielded all others, making the wonderful record of 213 bushels of shelled corn to the acre. Used extensively for ensilage. Pk. 40c., bush. $1.50.

Leaming. An early Yellow Dent corn, which is growing more popular in New England every season for ensilage. Pk. 35c., bush. $1.25, 2 bush. $2.30.

Red Cob Ensilage. (Bushnell's.) A pure white corn, with red cob. Probably grown more extensively for ensilage than any other variety. Pk. 30c., bush. $1.15, 2 bush. $2.20.

Southern White. This is grown for us in the south, especially for seed. Is the true Southern White, having a round, flat kernel, whereas that offered by many seedsmen is the variety having a pointed kernel, which is not as leafy, nor is it generally grown by those engaged in growing corn for seed; is, therefore, not as well cured, and usually does not germinate nearly as well as the other varieties which have the usual care given to corn grown especially for seed. The strain we offer costs a little more, but is well worth the difference. Pk. 30c., bush. $1.15, 2 bush, $2.20.

OTHER SPECIES of the Corn or Maize Family yearly Growing in Popularity for Fodder or Ensilage. Both stand Dry Weather better than Corn.

Kafir Corn. This plant seems to be increasing in popularity as a forage crop. In habit of growth it is low, stocky, and perfectly erect; does not stool from the roots but branches from upper joints. The stalks are tender and juicy, and are used entire, as well as the blades, both for green and dry fodder, and are readily eaten by horses and cattle. The grain has already become a popular food for poultry and pigeons in many sections. Reliance, however, cannot be placed upon it to mature in the latitudes of New England. That which especially recommends this as a forage plant is the fact that it will produce a crop with less rain than corn and that it is much less affected by hot winds. While corn once stunted by drought never fully recovers, this may remain stationary and curled for days and even weeks but quickly revives when rain comes, and if not too late in the season will produce a good crop of fodder. Like many other plants which thrive on dry and comparatively poor land, this will thrive better and produce a heavier crop on a strong, well enriched land. Usually sown in drills, with rows from 2½ to 3 feet apart, allowing plants to stand from 5 to 9 inches apart, according to the strength and richness of the soil. 10 lbs. to the acre. For further information we advise a reading of Farmers' Bulletin No. 37, which may be obtained of the Secretary of Agriculture at Washington, D. C., on application.

Lb. 10c.; lb. by mail, 20c.; 10 lbs. or over by express or freight, 5c. per lb.

Early Amber Sugar Cane. Sorghum is more and more becoming to be regarded of value as an addition to the list of fodder and ensilage plants. The Early Amber Sugar Cane is considered the most desirable variety of this class for these purposes. It withstands extreme drought and hot dry winds, remaining fresh and green through a dry period that would ruin corn. On average soil and usual conditions doubtless corn and other plants would prove more valuable for either purpose, but on especially dry soil this would be more desirable. It may be sown either broadcast or in drills with the rows sufficiently apart to admit of cultivation, the latter method being the more popular in the East. Opinion as to the amount of seed necessary varies; those, however, seemingly the best fitted to judge advise the use of from 75 to 100 pounds per acre. It is recommended for pasturing, especially for sheep and hogs. It will mature a crop of grain wherever Indian corn will ripen. This, while not quite equal in value for general feeding purposes to corn, is, however, considered very desirable for poultry in that it is greedily eaten by them and affords a desired change, and is especially recommended for laying hens, as it is said to greatly stimulate egg production. Further information may be gained by a reading of Farmers' Bulletin No. 50, which may be obtained free on application to the Secretary of Agriculture at Washington, D. C.

Lb. 12c.; lb. by mail, 20c.; by express or freight, 10 lbs. 75c., 25 lbs. or over, 6c. per lb.

- THE - Eureka Ensilage Corn

THE BEST OF ALL.

Will produce more Tons of Ensilage per Acre than any other variety. . . .

ONE of the not least pleasing features of the seed business is the approval by the public of that which the seedsman has recommended to be a superior variety, for which he has made especially strong claims and for the success of which he has earnestly hoped.

We are enabled to say regarding the **Eureka Corn** that each succeeding year has brought to us many reports of this pleasing nature, and the constancy of customers and ever increasing yearly sales but verifies our first and yearly succeeding claim that the **Eureka** was and is the **Best of its Class** *—that is, the Best Ensilage Corn in Use.*

The EUREKA, although a selection from the Southern White, differs from that sufficiently to well entitle it to a distinctive name. It is a well-known fact that plants grown in a southern climate have more foliage than those grown in a northern. The southern farmer uses no other hay for his working stock than the leaves of corn; not by cutting down the stalks as we do, but by stripping the blades from the stalks. Therefore, it is desirable to grow corn with the largest amount of foliage possible. In this respect there is a great difference in what is called Southern Corn, some varieties producing nearly double the amount of green fodder that others do. The Eureka was obtained by carefully selecting for fifteen years from the True Southern White the stalks which produced the largest amount of foliage and greatest number of ears, with the result, a variety which, with proper fertilizing, will grow from fourteen to eighteen feet high, and often have four and five ears to the stalk. This selection was made by one of the most reliable growers in Virginia, and who, since its introduction, has continued to grow seeds especially for us. Since its introduction, there has been an evident improvement in it in regard to earliness. We mention this because many desire that a variety shall be early enough to produce ears well toward maturity, before time to cut for ensilage, and we feel that if there has ever been any objection to this corn because it was late, it has been overcome by this improvement.

While we are yearly in receipt of many testimonials showing what our customers think of the Eureka, want of space has prevented us from publishing many of them. Of the following two characteristic ones we have to say that the first shows what this variety will do under adverse conditions, and the second the growth it will make when conditions are more favorable.

ROSS BROTHERS, Worcester.

GENTLEMEN: It gives me great pleasure to report to you the good results derived from planting the Eureka Ensilage Corn. One acre planted early matured well, and stood from twelve to sixteen feet high. One acre was planted *July 1st* on land from which a crop of hay had just been taken. On the 1st of September a stalk of the corn measured ten feet—to the tip of the leaves. When it was cut for the silo it would average that. Our early field corn did not come up well (the seed was of our own raising). It was planted over with your "Eureka", so in that way we got a *great* crop.

Yours very truly, A. M. LYMAN,
Secretary and Treasurer of Massachusetts
Creamery Association, Montague, Mass.

COOK HILL, Wallingford, Conn.

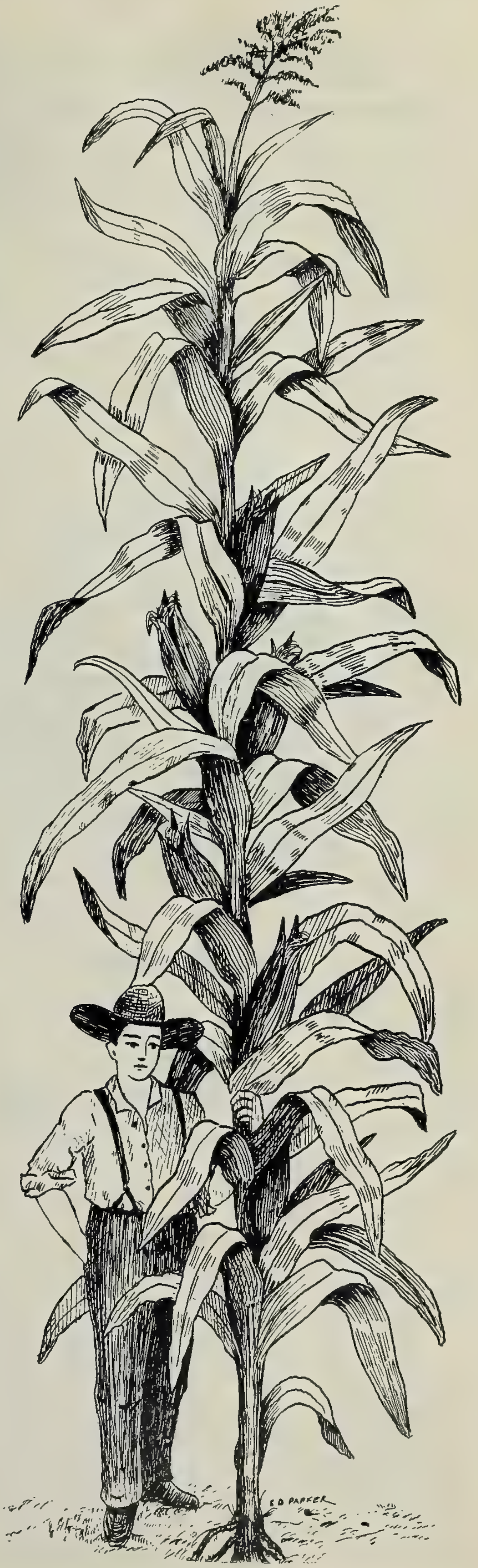
ROSS BROS., Worcester, Mass.

Gentlemen:—The corn in the photo sent you was planted on well manured ground, and hen manure instead of fertilizer in the rows, planted with the "King of the Cornfield." The average height was, in 76 day's growth, 17 ft. 7¾ in. It was a handsome piece of corn.

Yours respectfully, WM. S. FUSHEY.

We have entire control of Eureka Corn, but sell it at wholesale as well as retail. Those who prefer to buy of some dealer nearer, rather than directly of us, should be sure that this dealer has the Genuine Eureka. It is always put up in bags, plainly marked, "ROSS BROTHERS' EUREKA ENSILAGE CORN."

Peck, 60c.; bushel, $2.00; 3 bushels, $5.00. No charge for bags.



If our Seeds please you, TELL YOUR FRIENDS. If not, TELL US.

CUCUMBER

Early Russian. The earliest cucumber grown; fruit produced in pairs.

Early Frame or Short Green. An excellent sort, both for table use and pickling. Plants very vigorous and productive. Fruit straight, handsomer, smaller at each end, bright green, lighter at the blossom end.

Early Cluster. Short, borne in clusters near the root. Popular for home use, but little grown for market.

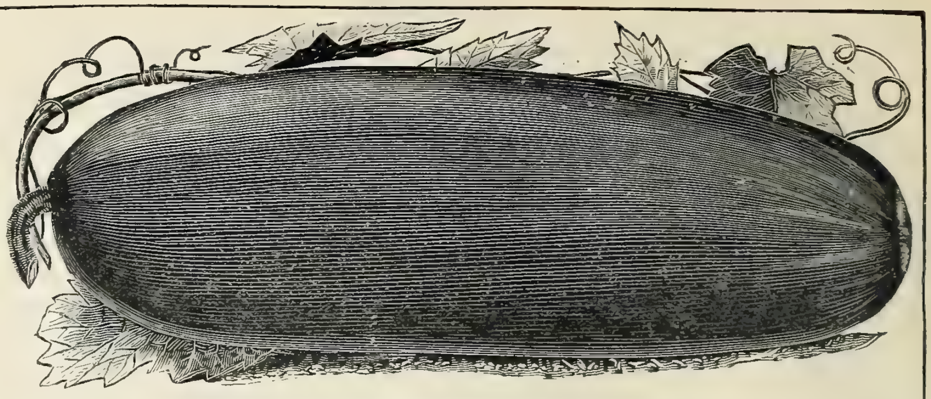
Nichols' Medium Green. Thicker than the White Spine, and full at both ends. Skin light green and very smooth. Handsome in appearance, and of fine quality.

White Spine Improved. The most popular variety for market. Fruit straight and handsome. Used extensively for forcing.

Evergreen White Spine. Longer than preceding strain, of equal quality; also used for forcing.

New Japanese Climbing. Vines vigorous, with strong, grasping tendrils, which enables it to climb trellis, wire netting, brush, or any other suitable support.

Improved Long Green. Vines vigorous and productive. Fruit long, firm and crisp. Makes one of the best of pickles, and when ripe is the best of any for sweet pickles.



THE EMERALD.

Boston Pickling. One of the best for pickling. Fruit short, pointed at each end, bright green, uniform in size, very productive, and of superior quality.

Each variety, pkt. 5c., oz. 15c., 2 oz. 25c., ¼ lb. 50c., lb. $1.75.

The crop of cucumber seed was almost a failure the past season and in consequence prices rule very high, and while of most varieties we have a fair stock, of the following variety, the Emerald, we have only a very limited quantity. We can not offer it in larger quantities than an ounce, and it is only a question of time when this stock will be exhausted.

Emerald. This new cucumber is claimed by the introducers to retain all the good points of the White Spine, and in addition to possess a desirable rich dark green, and also that it is strictly an evergreen, retaining this color until ripe. The fruit sets early, and is long, straight and handsome.

Pkt. 5c., oz. 20c.

Dandelion.

American Improved. Thick leaved. Pkt. 10c., ¼ oz., 25c., oz. 40c., 2 oz. 70c., ¼ lb. $1.00, lb. $4.00.

French, or Common. Pkt. 5c., ¼ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 75c., lb. $2.50.

Arlington. Leaves finer than the American Improved; very popular in Boston market. Pkt. 10c., ¼ oz. 25c., oz. 40c., 2 oz. 70c., ¼ lb. $1.25., lb. $4.00.

Kohl Rabi.

Early White Vienna.

Early Purple Vienna. Pkt. 5c., ¼ oz. 10c., oz. 15c., 2 oz. 30c., ¼ lb. 50c.

Leek.

American Broad Flag. The standard variety. Pkt. 5c., ¼ oz. 10c., oz. 15c., 2 oz. 25c., ¼ lb. 40c., lb. $1.25.

Kale. (Borecole.)

Green Curled Scotch. Of dwarf and compact growth, leaves curled and crimped, the whole plant resembling a bunch of moss. The best variety for general use. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c.

Endive.

Moss Curled.

Large Green Curled. A large, coarse, strong-growing variety, which by tying up can be made to form finely; blanched centers of good quality. Outer leaves well cut, and bright, deep green each. Pkt. 5c., ¼ oz. 10c., oz. 15c., 2 oz. 25c., ¼ lb. 40c.

Egg Plant.

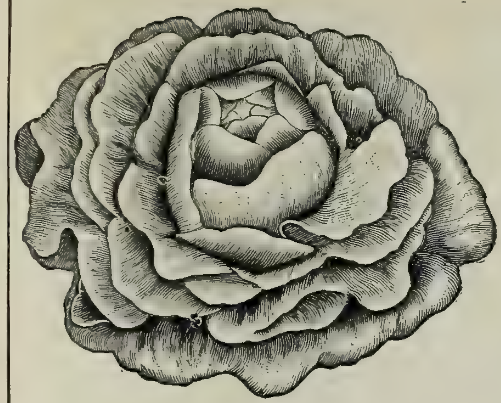
New York Improved. The standard variety in all sections of the country. Pkt. 10c. ¼ oz. 20c., oz. 35c., 2 oz. 60c., ¼ lb. $1.00.

Martynia.

A strong-growing, hardy annual plant with curiously shaped seed pods, which, when young and tender, are highly prized for pickling. The pods are produced in great abundance, and should be gathered when less than half grown, as after the hardening of the flesh they are worthless.

Proboscidea. The common variety. Pkt. 5c., ¼ oz. 20c., oz. 35c., 2 oz. 60c., ¼ lb. $1.00.

THERE will, perhaps, be no better place in this catalogue than here to call the attention of those who reside at a distance to the fact that we are located in probably the most critical section of the country in regard to the quality of seeds demanded, not only regarding germination but that which is really of much greater importance, the character or purity of their products. Through the helpful influences of the three large horticultural societies of Massachusetts, the Massachusetts Horticultural of Boston, the Worcester Horticultural, and the Springfield Amateur Horticultural, a larger part of those interested in the culture of vegetables, flowers and fruits, both professionals and amateurs, have probably become better informed regarding the true types of varieties than in any other section of the same area, and probably nowhere is there a larger proportion of space devoted to the culture of vegetables, flowers and fruits than in Massachusetts. While we have not just now at hand that by which we could verify it, we nevertheless think we are correct in making the statement that the combined membership of these three horticultural societies is greater than that of any other three in the United States. That the yearly attendance and number of exhibitors is greater is beyond doubt, and that the reports of their awards are more widely read and their general influence more far-reaching is probably equally certain. The Worcester Horticultural Society holds weekly competitive exhibitions from early spring until late in the fall, and in Boston they are held the entire year, and while the Society at Springfield does not hold weekly exhibitions their special ones of Sweet Peas, Roses, etc., are noted all over the world, while their exhibits of vegetables, fruits and flowers are of a high order. The systematic manner in which all these exhibitions are conducted, their liberal premiums and fair awards, made by competent judges, have caused a sharp rivalry between both large and small cultivators and taught them which the best varieties are and **what they are,** that is, the true types In consequence, the trade in Massachusetts demands not only seeds of the best varieties and those which will grow, but also those which will produce crops **true to name.** This is the condition we have to meet—and **we do it.** Those who know us best know how rapidly our trade has increased, and also what has caused it to increase,—seeds that will grow—**grow true to name**—and sold at reasonable prices. Among our largest customers in this vicinity are those who are constant competitors at our exhibitions, and often at Boston and Springfield, with satisfactory results, often in the shape of "First Premiums," and this is what we are striving to impress upon the class to whom we are writing, that we sell seeds which meet the wants of the most critical trade of critical Massachusetts—prize strains which will please others as well.



Hittinger's Belmont.

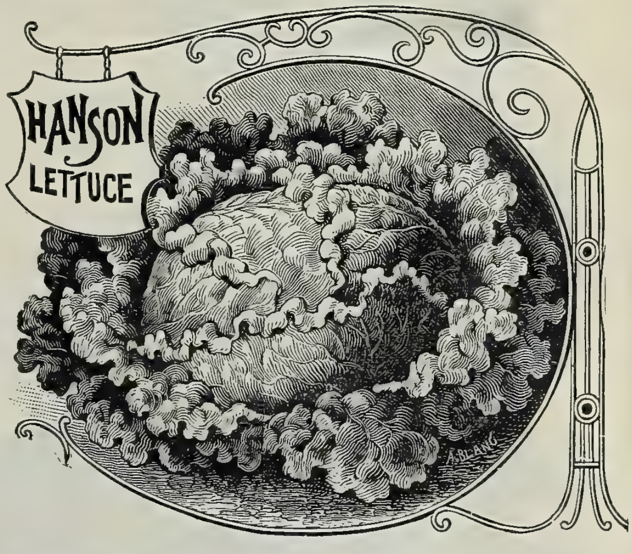
LETTUCE

White Seed Tennis Ball, or Boston Market. Used more extensively for forcing under glass than any other sort. Heads small but very compact, and of good quality. But little used for out-door planting.

Hittinger's Belmont Forcing. A choice strain for forcing in the greenhouse. Much larger than the White Seeded Tennis Ball and a little later. Quality excellent. Very profitable for market. Not recommended for out-door culture.

Big Boston. Like the Belmont Forcing, this is nearly identical in general appearance with the White Seed Tennis Ball or Boston Market, but is much larger, often growing double the size. It grows to a large solid head, is crisp and free from bitterness, and is especially desirable for mid-season or late planting.

Black Seed Tennis Ball. Used in New England for the first out-door planting, and is the first to head. Used in New York and other sections for forcing. Heads medium size and compact, leaves thick, dark green, and when quickly grown, crisp and tender.



Earpy Curled Simpson. (White seed.) Early, forms a small loose head, leaves much curled, of excellent quality, and entensively cultivated both under glass and out-doors.

Black Seed Simpson. Much larger than the preceding, but not as much curled. Forms a large loose cluster of leaves rather than a head, leaves light yellowish green; a good variety and extensively grown.

Early Curled Silesia. An old standard sort, very popular for home gardens and market.

Boston Fine Curled. A variety highly esteemed for earliness, beauty of form and good table qualities; beautifully curled.

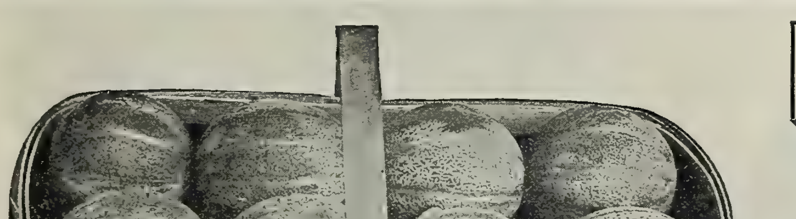
The Deacon. An excellent sort, medium early, heads of good size, with few outer leaves, which are deep green, the inner ones blanching to a bright yellow. Will remain fit for use a long time. We consider it one of the best early summer varieties.

Prize Head. This variety has no superior where a thin, tender, crisp and sweet lettuce is wanted for the home garden or local market. Being so thin leaved and tender it, of course, wilts very quickly after cutting, and is not suitable for distant markets. Plants large, deep green, so washed with red as to appear more red than green, forming a head of a dense mass of leaves, rather than one like a cabbage, and very slow to run to seed.

Henderson's New York. The introducers say it is of unusual size and solidity of head, with but little tendency to run to seed; often weighing nearly four pounds, with heads almost as solid as an Early Summer cabbage; blanches itself naturally, is crisp, tender and of excellent flavor, and always free from bitterness. Is not a forcing variety, but is certainly one of the best varieties for summer use ever introduced.

Hanson. We can recommend this as one of the very best. Outer leaves white, and usually curved and twisted at the base. Extensively grown by market gardeners; always sure to make large, handsome heads; of excellent quality.

All varieties at uniform prices. Pkt. 5c., ½ oz. 10c., oz. 15c., 2 oz. 25c., ¼ lb. 40c., lb. $1.50.

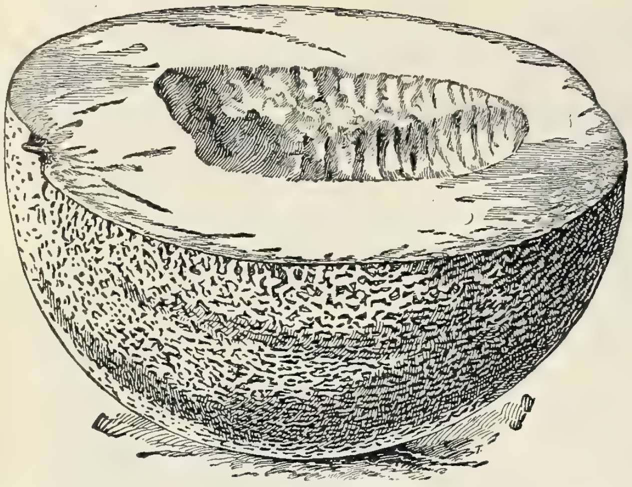


New Musk Melon Petoskey or Paul Rose.

THIS excellent melon is a cross of the Osage with the Netted Gem, and combines the sweetness of the former, with the general appearance of the Gem. It originated with a large and very successful melon grower, who claims that he realized twice as much from an acre of this melon as from any other sort. In shape it is oval, about five inches in diameter, and has the fine netting of the Netted Gem or Rocky Ford. The flesh is firm, very thick, of a rich orange red similar to that of the Osage, but sweeter avd finer flavored, and is pronounced by all who have used it to be the most uniformiy good melon of any in cultivation.

It is seldom that a melon combines the superb quality of this variety, with the necessary features for shipping. The Paul Rose, however, surpasses all others as a shipper and long keeper. We know of no variety which equals it as a market shipping melon, nor of any which surpasses it for the home garden. Pkt. 5c., oz. 15c., 2 oz. 25c., ¼ lb. 35c., lb. $1.20.

OUR SPECIAL OFFER ENABLES ALL TO GET A *LARGE DISCOUNT* ON SEEDS BY THE PACKET AND OUNCE. SEE PAGE 1.



Cosmopolitan Musk Melon.

MUSK MELON.

Surprise. Very early, medium size, flesh salmon color.

Emerald Gem. A small round melon of superior flavor. Flesh salmon color, very thick and fine grained; skin dark green. One of the best for home use, and growing more popular every year as a market variety on account of its uniformly excellent quality.

Green Nutmeg. Of medium size, globular, slightlyribbed, sweet and of fine flavor.

Miller's Cream. Of medium size, flesh thick, salmon color, sweet and melting.

Extra Early Hackensack. Of good size, round, flattened, green flesh, netted.

The Cosmopolitan. Claimed by the introducers to be the most beautiful of the Green Fleshed Melons. Fruit slightly oval, nearly round. Color light green, covered at maturity with silver gray netting. Flesh green, firm, sweet and high flavored.

Montreal Market. The largest round melon; slightly oval; sparsely netted; flesh green, thick, and delicious.

Bay View. One of the largest, most productive and best flavored melons grown. Shape oblong, flesh green.

Long Yellow. Large, ribbed, slightly netted; flesh salmon color.

Each variety, Pkt. 5c., oz. 10c., 2 ozs. 15c., ¼ lb. 25c., lb. 85c.

WATER MELON.

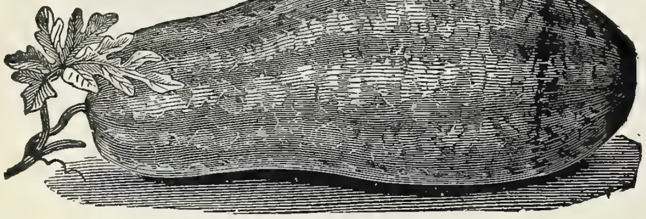
Phinney's Early. Of medium size, oval; thin rind, very productive, sweet and melting.

The Boss. Of medium size, thin rind, brilliant red flesh; solid, of delicious quality.

Peerless or Ice Cream. Very early; flesh red; of excellent quality; seed white.

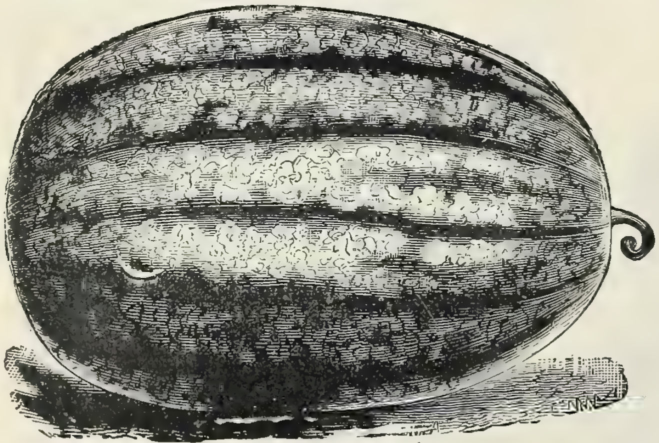
Kolb's Gem. Nearly round, dark green, with narrow stripes of lighter shade; flesh bright red; excellent for shipping.

Mountain Sweet. An old popular variety; flesh red, firm and sweet.



Mountain Sweet Watermelon.

Black Spanish. Of medium size, round; thin rind, excellent quality; vines small; a sure cropper.



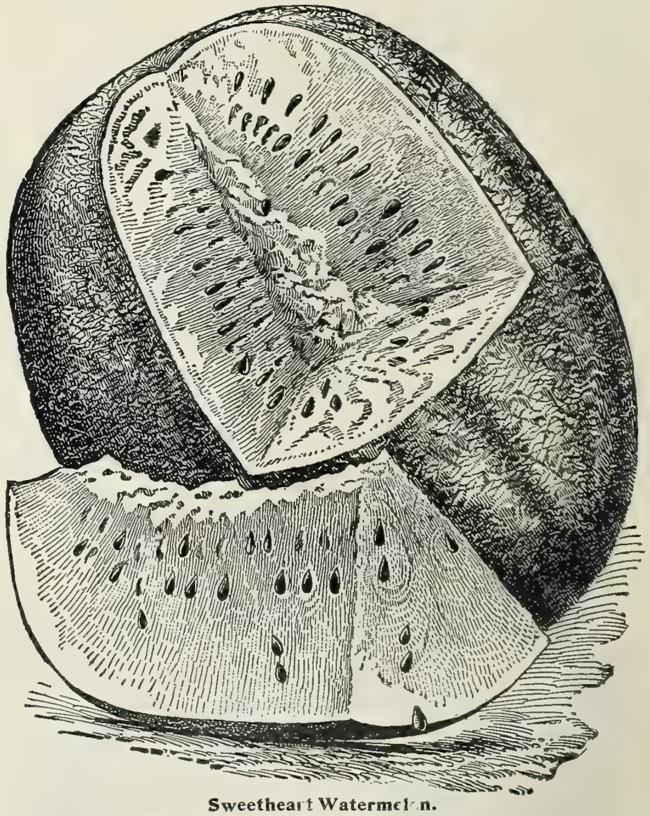
Cuban Queen Watermelon.

Cuban Queen. Beautifully marked, light and dark green, solid, crisp, bright red flesh, large; a good shipper.

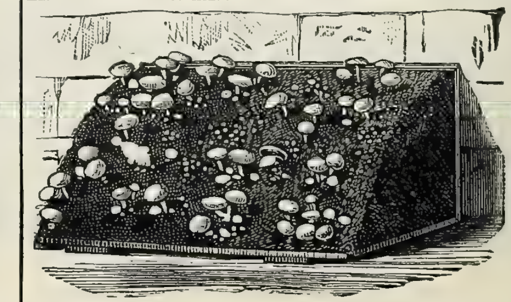
Citron. (Red seeded.) For preserving only.

Each variety, Pkt. 5c., oz. 10c., 2 ozs. 15c., ¼ lb. 25c. lb 85c.

The Sweetheart. Large, oval, very heavy. Rind thin but firm; flesh bright red, firm, solid, but very tender, melting and sweet. Remains in condition for use longer than most sorts.



Sweetheart Watermelon.



MUSHROOM.

Spawn.

Lb. 15c.
8 lbs. $1.00.

MUSTARD.

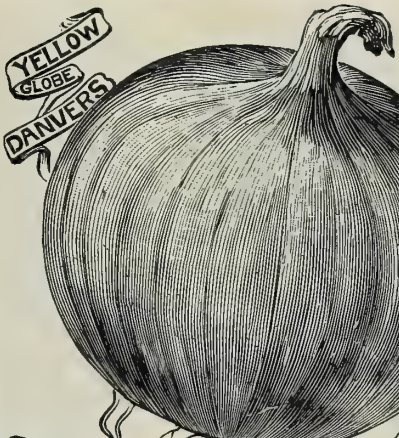
White.

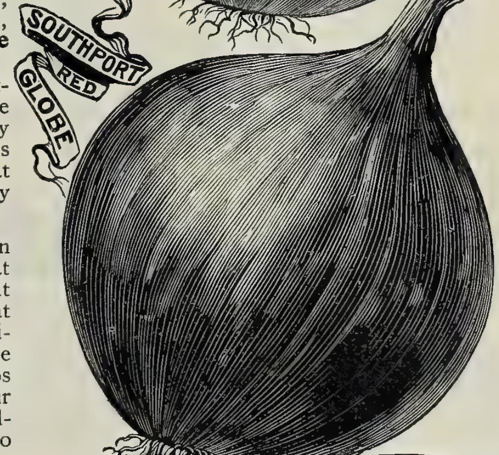
Pkt. 5c., oz. 10c.,
¼ lb. 15c., lb. 40c.

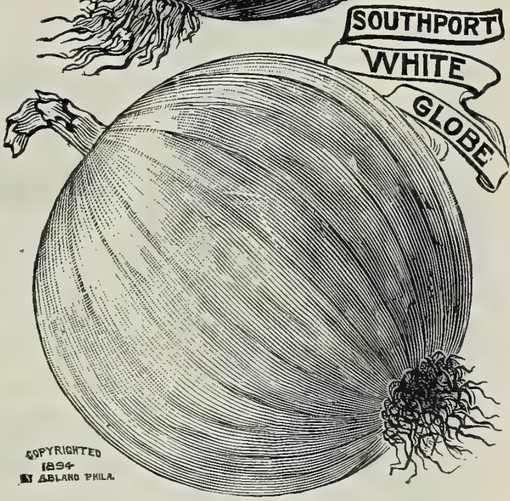
Our SPECIAL OFFER will allow you to select Seven Packets of Melons for 25 Cents.

ONION

—GLOBE-SHAPED VARIETIES.—
Eastern Grown Seed.







The Heaviest — The Best Keepers — The Handsomest
The Quickest to Sell — The Money Makers.

TO NO other branch of our business do we give more attention than to the growing of onion seed. We have for several years paid especial attention to the varieties which are globe-shaped, personally selecting our stock in the field, and have to offer THE BEST THAT GROWS.

It must be obvious to all that a globe-shaped onion occupies no more room when growing than a flat one of equal diameter, and equally obvious that the first would be the heavier when mature; therefore the yield per acre must be much larger. The globe-shaped onions all have thicker outer skins than the flat, bear handling better, and consequently are much better keepers. They are also of more attractive form, selling easier and usually at higher prices. **The globe-shaped varieties are the ones to grow for profit.** To grow them the right seed is necessary.

That there is a vast difference between the results obtained from the use of eastern and western grown stocks all careful and candid observers will admit, and, while we are not prepared to say here that seed which will produce crops of uniformly globe-shaped onions cannot be grown in California, we can truthfully say, after years of careful observation, that we have yet to see a crop grown from western seed that could at all compare in this respect, nor for that matter in any other, with the many grown from our Selected Eastern Grown Seed.

Yellow Globe Danvers. Eastern Grown. This variety is more largely grown than any other, and in Massachusetts the demand for seed of it by far exceeds that for all other varieties combined. The strain which we offer is much different from the old type, that being a flat bottomed onion while the upper half somewhat resembled this. This more nearly resembles the Southport type, is of true spherical form, only differing from the Southport in that it is a very little flattened at the top and bottom. We have for several years been selecting in the field such bulbs as were strictly true to the type and have developed a very superior strain. Our onions when selected for seed and spread upon the storage floors excites the admiration of all who see them. As we have said above, this type is the one to grow for profit.

Southport Yellow Globe. Very similar to our Yellow Globe Danvers, a little more elongated and possibly a little later in maturing but not differing nearly as much in that respect as commonly supposed.

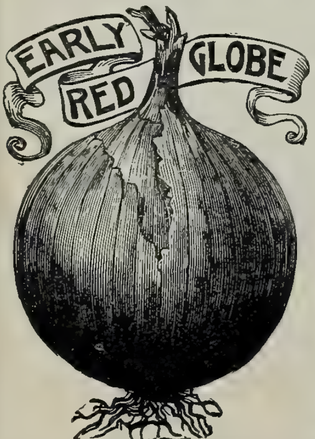
Southport Red Globe. Identical in form with the preceding. The handsomest of all onions and is being grown to greater extent at present than ever before.

The preceding varieties each, pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 50c., lb. $1.50.

Southport White Globe. Of true globe shape. Not largely grown but brings the highest prices in market of any variety. A much better keeper than any other white variety. Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 75c., lb. $2.60.

Extra Early Red Flat. The earliest red variety. Pkt. 5c., ½ oz. 10c., oz., 15c., 2 oz. 25c., ¼ lb. 35c., lb. $1.15.

Early Yellow Cracker. The earliest yellow variety; very flat, mild; needs care in handling to insure keeping; very desirable for home markets. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 50c., lb. $1.50.



Early Red Globe Danvers. While not all of a crop of this has as yet been as perfect in shape as the illustration, a proportion of them have and the balance somewhat approaching it. It might perhaps be better described as a very thick onion rather than globe-shaped. It is nearly as early as the Early Red Flat, has a firm skin, is of fair size and good color. It is remarkably free from the tendency to produce stiff necks or scallions. It is growing in favor, to which its earliness and other good qualities well entitle it. Pkt. 5c., ½ oz. 12c., oz. 20c., 2 oz. 35c., ¼ lb. 50c., lb. $1.50.

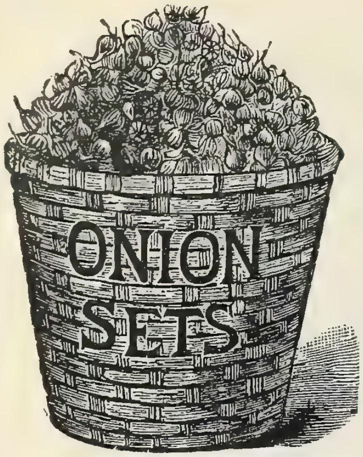
White Portugal or Silver Skin. A white, thin skinned variety, of especially mild flavor and very tender. It grows to a good size and is early. Desirable for the market gardener for early use and for the home garden because of its tenderness and mild flavor. Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 75c., lb. $2.50.

Yellow Globe Danvers. Best Western Stock. Offered by many leading seedsmen as their best. Pkt. 5c.. ½ oz. 10c., oz. 15c., 2 oz., 25c., ¼ lb. 35c., lb. $1.00.

Red Wethersfield. A variety which has been extensively grown but which in most of the onion-growing districts of New England is now but little used, and while the demand for red onions seems to be increasing, that for seed is largely for the globe-shaped varieties, planters having learned the superiority of this class. We offer, however, a choice strain of seed grown from selected bulbs. Pkt. 5c., ½ oz. 10c., oz. 15c., 2 oz. 25c., ¼ lb. 35c., lb. $1.00.

Prize Taker. One of the largest varieties in cultivation. Skin thin, light straw color, flesh pure white and is extremely mild and sweet flavored. It is quite sure to bottom, but is late and is not a good keeper. It is largely used for sowing early in the hotbed for transplanting, and for that purpose is an excellent sort. Pkt. 5c., ½ oz. 10c., oz. 20c., 2 oz., 35c., ¼ lb. 50c., lb. $1.50.

The Economy Which Leads to Buying the Cheapest Onion Seed is Really Great Extravagance. ❧ **The Best is the Cheapest.**



Onion Sets.

Prices Variable.

If by mail add 10 cents per quart to price.

White. Qt. 20c., ½ pk. 65c., pk. $1.25.

Yellow. Qt. 20c., ½ pk. 65c., pk. $1.25.

Top or Button. These are the best for the home garden, especially for growing to full sized matured onions. The sets are obtained by planting large or matured onions which bear the sets at the top of the seed stalk. We have been unable to secure these for many years and consider ourselves fortunate in being able now to offer them.

Qt. 25c., ½ pk. 75c., pk. $1.35.

Potato Onions. Qt. 15c., ½ pk. 50c., pk. 90c.

Shallots. Qt. 20c., ½ pk. 65c., pk. $1.25.

PEPPERS.

Large Bell. Large, bell-shaped, thick fleshed and less pungent than some other sorts. Good for filling.

Sweet Mountain. Fruit very large, often eight inches long by two in diameter. Flesh thick, sweet and mild.

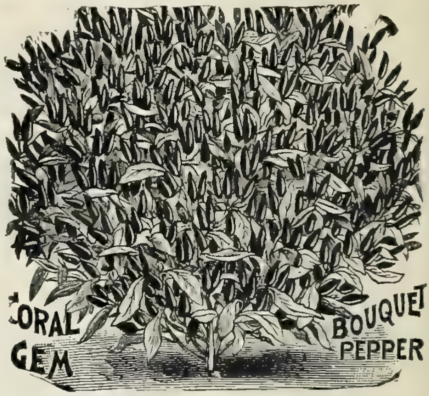
Ruby King. The handsomest of the large sorts, mild and sweet.

Squash or Tomato Shaped. Fruit flat or tomato shaped, and somewhat ribbed, flesh thick and slightly more pungent than other large sorts, early and sure to mature.

Cayenne. Best for seasoning pickles; very hot.

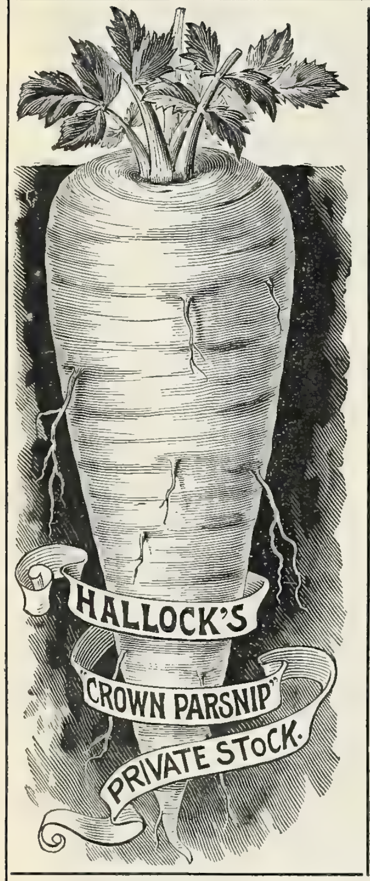
Red Chili. Used for making pepper sauce. Pods bright red, slender, about two inches long and very pungent. Requires a long season; seed should be sown early in hot bed.

Each of above, pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ½ lb. 75c.



Coral Gem Bouquet. The best of the small sorts. Its small red pods are so thickly set as to give it the appearance of a bouquet. Very ornamental, as well as useful.

Pkt. 10c., ½ oz. 20c., oz. 40c.



PARSNIP.

Arlington Long Smooth. A selected strain; roots extra long; desirable for deep mellow soil.

Hollow Crown. Roots shorter than the preceding; succeeds where that would not, that is on shallower soils.

Of both varieties we have to offer choice strains of seed which we have for many years sold and which cannot be surpassed.

Each, pkt. 5c., oz. 10c., 2 ozs. 15c., ¼ lb. 20c., lb. 50c.

PARSLEY.

Champion Moss Curled. | **Extra Double Curled.**

Each, pkt. 5c., oz. 10c., 2 ozs. 15c., ¼ lb. 25c., lb. 75c.

PUMPKIN.

Small Sugar. The popular variety in New England for pies; fine grained and sweet. Pkt. 5c., oz. 10c., 2 ozs. 15c., ¼ lb. 25c., lb. 75c.

Large Cheese or **Kentucky Field.** Shape flat, skin of a rich cream color when ripe, flesh tender and of fine quality. Pkt. 5c., oz. 10c., 2 ozs. 15c., ¼ lb. 25c., lb. 75c.

Mammoth Tours. One of the largest in cultivation; good for feeding stock. Pkt. 5c., oz. 10c., 2 ozs. 15c., ¼ lb. 25c., lb. 75c.

Connecticut Field. The standard variety for feeding stock. Pkt. 5c., ¼ lb. 15c., lb. 50c.

PEAS.

Extra Early Varieties.

Greatly to our regret we are again obliged to report a shortage in the supply of seed peas, and so nearly a failure was the crop of most of the early varieties that it is only a question of time when our stock of these will be exhausted. Customers, therefore, depending upon us for their supply should place their orders early, as, without doubt, we have not enough to carry us through the season.

Alaska. A variety which has been very popular, and is yet extensively grown by market gardeners and canners. Its popularity has been due to its earliness and productiveness, and it is inferior in quality to the early wrinkled sorts. Like all the hard round peas it is hardy and has the desirable feature of uniform ripening; nearly the whole crop can be gathered at first picking. Peas small, bluish green. Pods small, but well filled and abundantly produced. Vines two to two and one-half feet high.

½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 80c., pk. $1.50, bush. $5.50.

The following three early hard sorts are practically identical, as are all of this class listed by different seedsmen under a multiplicity of names.

If there is any difference between the stocks of different seedsmen, it is one of purity, not of type.

The stocks we offer have been carefully grown and will be found equal in all respects to those of this class offered by other seedsmen, regardless of what name they may choose to attach to them.

Improved Dan. O'Rourke. | **First and Best.** | **Philadelphia Extra Early.**

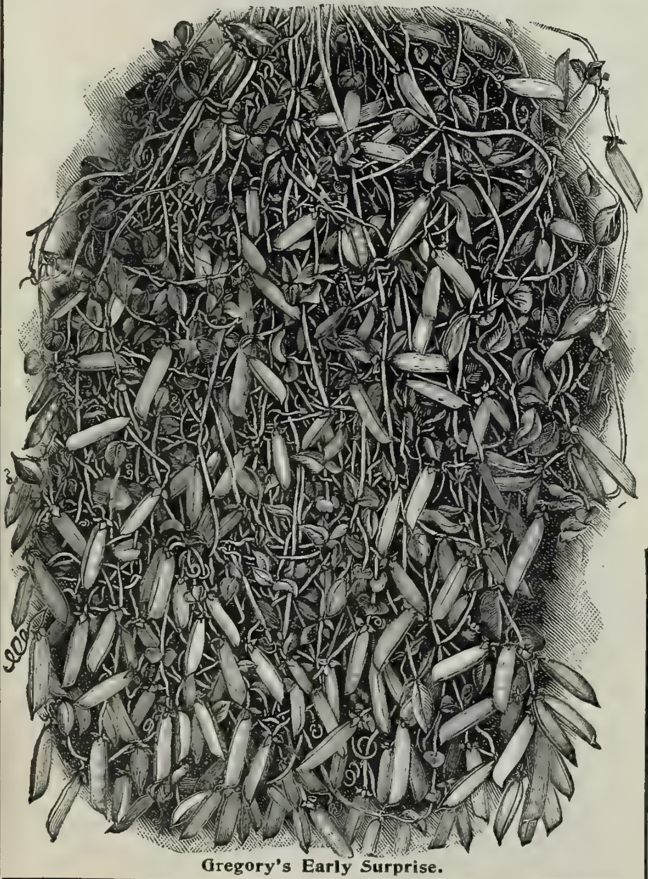
Each variety, ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 75c., pk. $1.35, bush. $5.00.

Note that we offer Peas by the Definite Quantity ☞ HALF PINT. Not by the Indefinite one — PACKET.

THE GRADUS PEA

Of all the varieties of vegetable that have been introduced for many years nothing has sprung into popularity sooner than the Gradus Pea, and nothing has been more deserving of it. Both the pods and peas are nearly as large as the *Telephone*, and it ripens with or very closely to the *Alaska* and other extra earlies. Its quality is of the best, nearly equal to the Champion of England, which has always in this respect been the standard with which all varieties have been compared. That it will eventually supplant the small early varieties is very probable if not certain. While the great value of it has, as yet, been apparent to only comparatively a few of the many who cultivate peas, the demand for seed has been far in excess of the supply, and when all have recognized its merit will probably be greater than it has ever been for any other variety. In its habit of growth the vine is strong and vigorous, about two and one-half feet in height, foliage large, closely resembling the Telephone in general appearance, although much dwarfer. The pods are nearly as large as those of that variety and are well filled with peas of enormous size, which are ready for the table so soon after the Alaska that the difference in time is harly worth noting, their quality, however, being so superior that it can hardly be compared with that of the Alaska. The combination of *earliness, large size and superior quality* places it far in advance of any other. While great productiveness is generally claimed for it, reports regarding this are somewhat conflicting. Our own observation has led us to the conclusion that in order to have the vine productive the soil must be in a richer condition than is generally considered necessary for growing peas, and that if it is it will be found to be a fairly productive variety. Owing to the very high price at which seed of the Gradus has thus far sold, growers have only retained barely enough for stock seed for growing contract orders, so that in no year since its introduction have they been able to accumulate a surplus. Unfortunately the conditions for securing a crop last season were worse than the previous two unfavorable ones, so that there is less seed in the hands of the dealers this season than for two years. Those who wish to secure seed must order early. The variety called Prosperity is identical with this, and for a continuation of that name there seems to be no good reason. ½ pt. 15c., pt. 30c,, qt. 50c., 2 qts. 90c., ½ pk. $1.50, pk. $2.75.

GREGORY'S EARLY SURPRISE PEA



Gregory's Early Surprise.

THIS pea was introduced by the veteran seedsmen, Jas. J. H. Gregory & Son, who at the time of its introduction said of it:—"It is the very earliest of the Wrinkled varieties,—the Station, Eclipse, American Wonder and Nott's Excelsior not excepted. Compared with the early hard sorts it will be found to be decidedly earlier than many of them, including the well-known Alpha and Maud S., while it is as early as the very earliest of them. Vines grow 24 inches high and need no bushing; pods well filled, containing six or seven peas; not as large as the American Wonder, but is a far better cropper and ready for the market days before it.

"Gregory's Surprise is one of Mr. Horsford's creations, he having obtained it by crossing 'Earliest of All' on the 'American Wonder,' and the result is a wrinkled pea as early as the 'Earliest of All' with the quality of the 'Wonder.' If it has the hardiness of its parent, 'Earliest of All,' the knell of the early class of hard peas has struck; for the public well know that they are inferior in quality, and will cease buying them as soon as they can find a wrinkled pea in the market". Had it not been that the Gradus was introduced at about the same time as the Surprise this would, undoubtedly, have become very popular. As it is, it is a desirable variety on account of its earliness and superior quality, and will with the Gradus, without doubt, displace the hard early sorts, which to some extent they have already done. ½ pt. 10c., pt. 20c., qt. 35c., 2 qts. 60c., ½ pk. $1.00, pk. $1.75.

NEW PEA Admiral Dewey

CLAIMED BY THE INTRODUCERS TO BE THE LARGEST PODDED PEA EVER OFFERED.

THIS variety is from one of the oldest firms of pea-growers in the country, whose description is as follows:—"During the season of 1894, while watching the growth of a small sample of a new and most desirable pea sent us from Carlisle, England, we found a few vines entirely different from the main crop, and entirely distinct from any pea we had ever seen. These few vines were carefully removed, and succeeding crops have shown them to be remarkably uniform and distinct. This is without exception the largest podded pea of which we have any knowledge, and when to this is added the heavy cropping and highest quality, it can readily be seen that it stands at the head of its class. Height three and one-half feet; foliage, vine and pod rich, dark green, remarkably healthy and vigorous, producing in abundance pods of largest size, frequently six inches in length, beautifully shaped, well filled with peas of largest size, tender and first-class flavor; seed green, wrinkled Undoubtedly the best of all the class of long vine, large podded peas." ½ pt. 10c, pt. 20c, qt. 35c, 2 qts. 60c, ½ pk. $100, pk. $1.75.

We Make SPECIAL PRICES To Market Gardeners and To All Large Buyers.

PEAS

Dwarf Extra Early Varieties.

The first three of these ripen very closely to the hard early sorts and are much superior in quality.

American Wonder. The vine is very dwarf but of stout branching habit, about 10 inches high. A fairly productive sort, pods of medium size and closely filled with peas of good size which are of the best flavor. A desirable variety for the private garden but not equal to the Nott's Excelsior for the market garden. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 55c., ½ pk. $1.00, pk. $1.75, bush. $6.50.

Nott's Excelsior. This is similar to the American Wonder but superior in nearly all respects. The vine grows about 14 inches high, is of vigorous habit, exceptionally uniform in growth and wonderfully productive. The pods are larger than those of the Wonder and well filled. The peas are of fine flavor. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 55c., ½ pk. $1.00, pk. $1.90, bush. $7.00.

Premium Gem. A popular variety, growing about 15 inches high. Pods are a little larger than those of the Wonder, and though not generally so closely packed with peas are yet well filled. The peas are wrinkled, of good size and flavor. Considered by many to be superior to the Little Gem. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.60, bush. $6 00.

McLean's Little Gem. An old favorite and yet largely grown. Height about 18 inches. Pods are well filled. Peas of good size, green, wrinkled, and of excellent quality. A productive and desirable variety. A little later than the preceding varieties. ½ pt. 10c., pt. 15c., qt. 30c., 2 qts. 50c., ½ pk. 90c., pk. $1.60, bush. $6.00.

Second Early, Medium and Late Sorts.

McLean's Advancer. A green, wrinkled marrow of extra quality. The standard second early in Boston market, and grown extensively everywhere. Height, 2½ feet. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 75c., pk. $1.35, bush. $5.00.

Hosford's Market Garden. A wrinkled variety; ripens closely to Advancer; of branching habit, very stocky. Peas medium size, of good quality. Height, 2 feet. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 75c., pk. $1.35, bush. $5.00.

Bliss' Abundance. Similar in general appearance to the Hosford's Market Garden but taller. Pods from 3 to 3½ inches long. Peas of good size and excellent flavor. Very productive. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 40c., ½ pk. 70c., pk. $1.25, bush. $4.50.

Heroine. A distinct and valuable variety. Foliage even and luxuriant, pods long, handsome and well filled with large peas of fine flavor. Remarkably true and fixed in its habit of growth. Height, 2½ feet. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 75c., pk. $1.35, bush. $5.00.

Yorkshire Hero, or Dwarf Champion. An old wrinkled sort, peas large and of delicious flavor, vines of a robust branching habit. Notwithstanding the many excellent new varieties, this old favorite still continues to be in great demand. Height, 2½ feet. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 40c., ½ pk. 70c., pk. $1.25, bush. $4.50.

Shropshire Hero. A strong, robust grower and very prolific. Pods are long and handsome; remarkably well filled with large peas. We know of no other variety which will shell out so many peas from a given quantity of pods. The peas are of delicious flavor. One of the best of its class and should be more generally used. Height, about 2½ feet. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 40c., ½ pk. 70c., pk. $1.25, bush. $4.50.

Improved Stratagem. An improvement on the old Stratagem, the tendency to sport being almost entirely removed. Vines are stocky, of vigorous habit and luxuriant foliage, and very productive. Height about 2½ feet. Pods and peas are of the largest size; quality unsurpassed. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 75c., pk. $1.35, bush. $5.00.

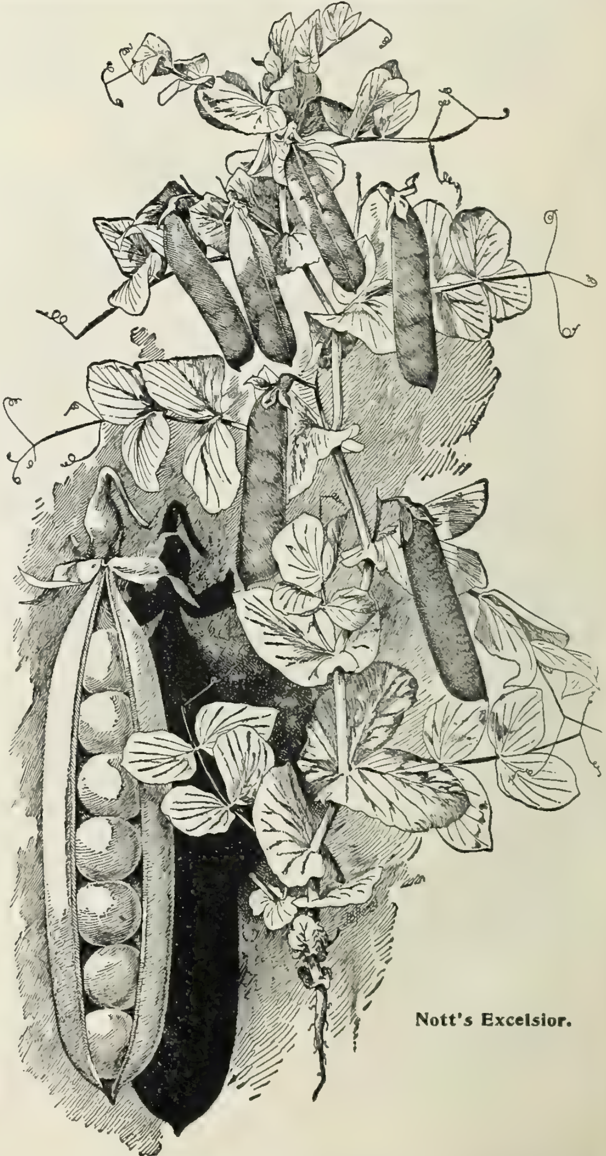
Everbearing. Vigorous and branching in habit of growth. Remains in bearing longer than most varieties. Pods medium in size. Peas are very large and of best quality. Height about 2½ feet. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 40c., ½ pk. 70c., pk. $1.25, bush. $4.50.

Telephone. The most popular late variety with market gardeners. Vines large and vigorous, growing about 4 feet high. Foliage light colored and large. Pods large. Peas large and sweet. We offer a carefully selected stock. ½ pt. 10c., pt. 15c., qt. 25c., 2 qts. 45c., ½ pk. 75c., pk. $1.35, bush. $5.00.

Champion of England. The most popular late sort for the home garden. It is unsurpassed in richness and flavor by any of the newer varieties, if indeed equalled. Pods medium size. Peas of medium size and much shriveled. Vines fairly productive. Height, 4 to 5 feet. ½ pt. 10c., pt. 15c., qt., 25c., 2 qts. 40c., ½ pk., 70c., pk. $1.25, bush. $4.50.

Large Black-Eyed Marrowfat. A well-known variety, growing about five feet high. Pods large and well filled. Peas large, round and smooth, but much inferior in quality to the wrinkled sorts. ½ pt. 6c., pt. 10c., qt. 15c., 2 qts. 25c., ½ pk. 45c., pk. 75c., bush. $2.60.

White Marrow. Similar to the preceding. Prices the same.



Nott's Excelsior.

Peas, Beans and Corn we DO NOT Send Postpaid unless the required amount is remitted for **Postage.** See Page **1.**

POTATOES

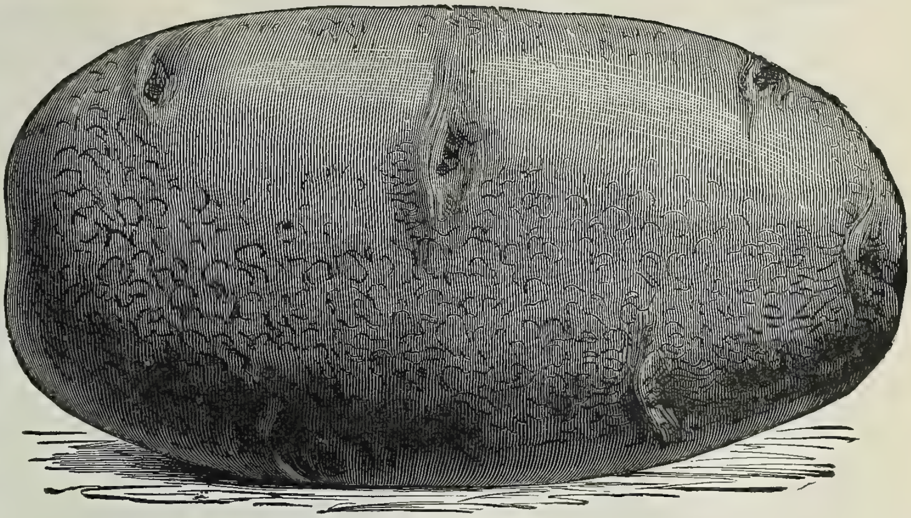
Choice Northern Grown Seed.

Progressive Farmers Change Seed Often
BECAUSE IT PAYS.

THE stocks which we offer of the following varieties were all grown in Aroostook County, Maine, by an experienced and reliable grower, and especially for seed. In no part of the country the past season could the crop of potatoes at all compare with that in Maine, and we feel sure that customers will be pleased with the appearance of our stocks. They are of good size, healthy, and true to name.

The varieties offered are such as our experience and that of others has led us to think the most desired or desirable. That a change of seed is profitable and that it should be that which was grown as far north as possible, is a question almost beyond discussion, as it is almost universally admitted to be a fact. While we would lead none to infer that we thought there was no choice in the several early varieties which are in general somewhat similar, we wish to say that we believe that that which is often of more importance than the choice of a variety is in getting a change of seed and good seed—that is, of good size, healthy and pure. If we are correct in our opinion it would be proper to suggest to customers sending orders after the season is well advanced, when we are liable to be sold out of some varieties, that they mention a second choice or even a third with which we might fill the order, if out of the first named sort. This often would save customers much annoyance, delay and disappointment and enable them to get seed much sooner than would otherwise be possible.

All varieties are put up in sacks, guaranteed to contain 165 pounds (a barrel), plainly marked with name of variety.



EARLY NORTHER.

EXTRA EARLY VARIETIES.

Early Six Weeks. An extra early variety, of good quality, cooking well as soon as it attains marketable size. In size medium to large, color light red or rose, form round oblong, resembling the Ohio, and having the specks peculiar to the Ohio type. Keeps well. A good yielder. Our grower says of it: "I consider it the best all around potato ever introduced." Pk. 50c., bush. $1.65, bbl. $4.00.

Early Bovee. An extra early variety, claimed by the introducers to have outyielded all other sorts. Closely resembles the Queen in shape and color; of good size, producing but few small tubers, and of best quality. All reports seem to bear out the introducers' claim of large yieldings when planted on strong soil. Pk. 50c., bush. $1.65, bbl. $4.00.

Early Fortune. Recommended as one of the best for early market, as it stands shipping well. A heavy cropper. In form and color it resembles the Rose, in quality surpasses it. The introducer says: "It is the earliest potato in the world, and I have tested everything. The quality, shape and color is of the best. It is going to lead everything." Pk. 50c., bush. $1.65, bbl. $4.00.

Early Harvest. An early white skinned variety of finest quality. A vigorous grower and great yielder. Said to bear shipping better in hot weather than most kinds. Pk. 50c., bush. $1.65, bbl. $4.00.

Irish Cobbler. Our grower says of this: "The biggest potato and greatest producer I have ever known among the first early varieties. It will outyield all other early kinds and equal most of the later varieties. Quality the best. Color a pure creamy white. Shape round to oblong, smooth. Vines very stocky, foliage dark green. Withstands drouth remarkably well for an early variety. It is a wonderful potato." Pk. 55c., bush. $1.85, bbl. $4.50.

Early Norther. In general appearance closely resembles its parent, the Early Rose. Since its introduction it has always been a favorite. Matures about with the Rose, perhaps a little earlier, is equal to that in quality and more even and regular in form. Pk. 50c., bush. $1.65, bbl. $4.00.

Early Essex. A seedling of the Early Rose, which it resembles. The vine, however, is of a ranker growth and more productive. It originated years ago in Massachusetts, and while it has never been a leading sort it has been, in portions of New England, a popular one. Pk. 50c., bush. $1.75, bbl. $4.25.

New Queen. A very popular sort. Closely resembles the Beauty of Hebron but is considerably earlier. A heavy yielder and of excellent quality. Pk. 50c., bush. $1.65, bbl. $4.00.

Clark's No. 1. An old favorite and still one with some growers; claimed by them to be earlier and more productive than the Rose, to which it is similar in general appearance. Of excellent quality. Pk. 50c., bush. $1.65, bbl. $4.00.

Early Rose. This standard variety needs no description; it is sufficient to say that most new early varieties are compared with this in earliness and quality. Pk. 45c., bush. $1.50, bbl. $3.75.

Beauty of Hebron. One of the most popular varieties. Probably more extensively grown than any other. Productive, early and of the best quality. Pk. 45c., bush. $1.50, bbl. $3.75.

Early Thoroughbred. A productive early variety. Matures with the Rose, in appearance resembles it; produces but few small tubers; is of extra quality. Vines are exceptionally hardy. Pk. 50c., bush. $1.65, bbl. $4.00.

SECOND EARLY, OR MEDIUM VARIETIES.

Prolific Rose. This is neither a selection nor sport of the Early Rose but a NEW SEEDLING of merit. Vines more stocky. One of the heaviest yielders of all the Rose seedlings, A little later than the Early Rose. We therefore place it with the second earliers, although we note that our grower places it this year with the first early sorts, while in his list of last year it was with the second early. Shape similar to the Early Rose. Color the same, except that the seed end is nearer red. Pk. 50c., bush. $1.75, bbl. $4.25.

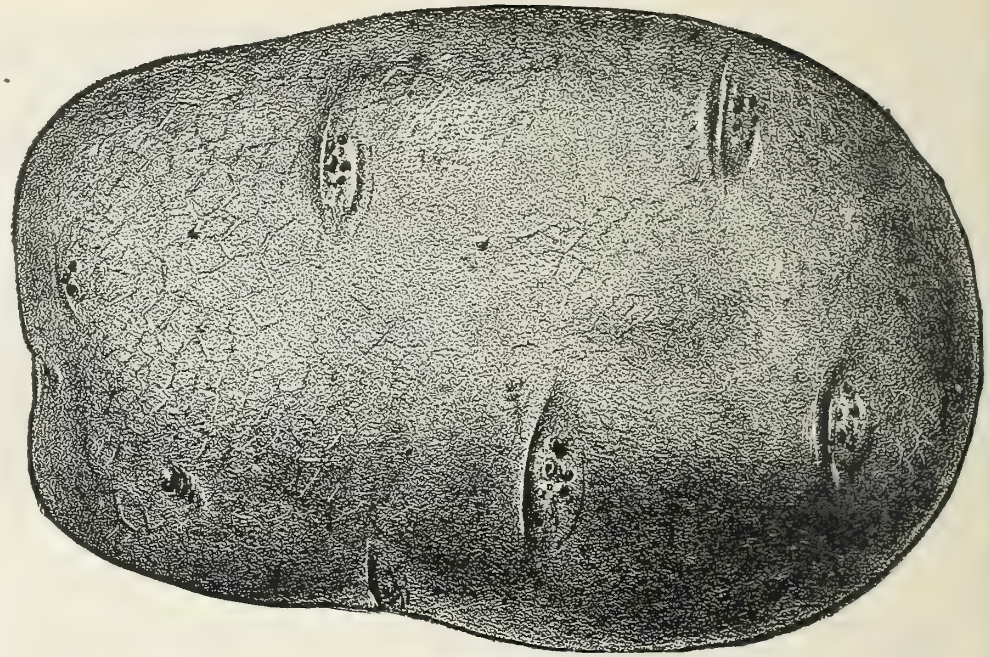
Aroostook Beauty. Our grower says of it: "The rankest grower of nearly fifty varieties. Large, very smooth, about the shape of Carman No. 1. Rose colored. Never has rotted with us. Has no weak spots; of fine quality; no blossoms. Destined to become a universal favorite." Pk. 55c., bush. $1.85, bbl. $4.50.

Delaware. Succeeds well in all soils. A valuable combination of size, yield and quality. White throughout. Shape oblong. Pk. 50c., bush. $1.65, bbl. $4.00.

Saving Money by planting the same old stock year after year instead of **Spending Money** for new, is like **Saving at the Spigot and Wasting at the Bunghole.**

POTATOES - Continued

Late or Main-Crop Varieties.



CAMBRIDGE RUSSET.

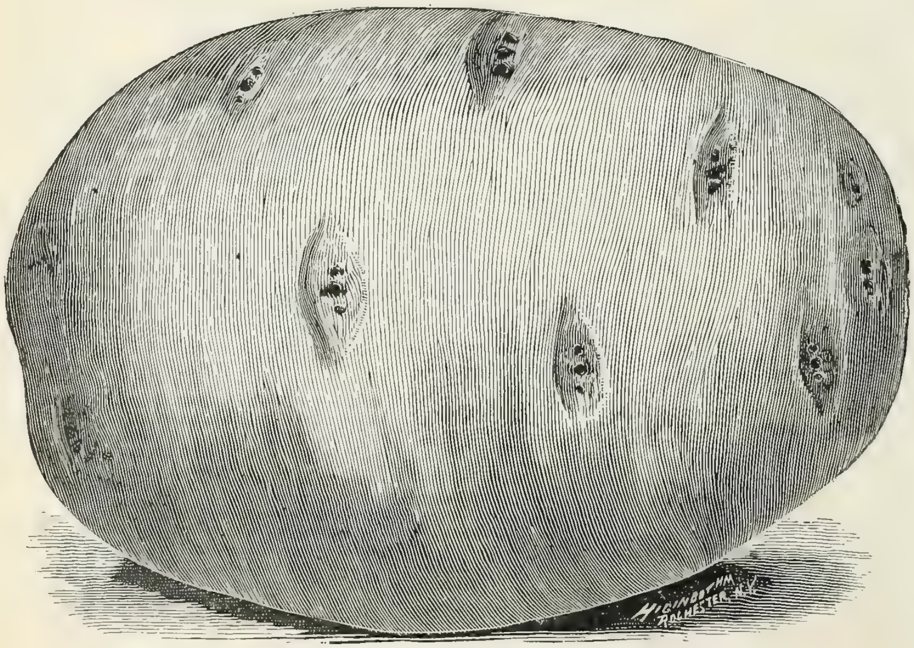
Cambridge Russet. In shape round to oblong, skin a beautiful light russet-brown covered with fine veinings. Uniform in size—none overgrown, few small ones. Never hollow. Of finest quality. Has a rich growth of vines which resist blight and drouth remarkably. Very productive. Pk. 50c., bush. $1.65, bbl. $4.00.

Green Mountain. A white skinned variety of flat oval form, smooth and attractive. Ripens slowly and is a good keeper. Quality excellent when well grown. Pk. 50c., bush. $1.65, bbl. $4.00.

Carman No. 1. Originated by Mr. Elbert S. Carman, late editor of the Rural New Yorker. Has been very popular wherever grown. Shape round or globular, skin white, shallow eyes; not inclined to rot in field or cellar; of excellent quality. Late in ripening, but yields large crops of fine marketable potatoes. Pk. 50c., bush. $1.65, bbl. $4.00.

Carman No. 3. Also originated by Mr. Carman, who said of it: "First, it is the handsomest round white potato ever produced; second, it will outyield any potato of its class; third, practically every potato is of merchantable size; fourth, its table qualities are up to the highest standard." It has yielded over six hundred bushels per acre, and in one instance twenty-two acres have produced 7,600 bushels. The vines grow very large and vigorous, rich dark green in color, and are not troubled by blight or bugs as much as many varieties are. Pk. 50c., bush. $1.65, bbl. $4.00.

Rural New Yorker No. 2. This was one of the first varieties originated on the experimental grounds of the Rural New Yorker. Very large and smooth, in form oblong inclined to round; skin and flesh white. Of superior quality. A large cropper. Pk. 50c., bush. $1.65, bbl. $4.00.



CARMAN NO. 3.

Enormous. As its name implies, a very large variety and also an enormous yielder. Skin very white, smooth, eyes of medium depth. A large percentage of crop marketable, few small ones. Late. Vines healthy and very stout and tall. Like all very large varieties, is more liable to be unsymmetrical in form than average sorts. Pk. 50c., bush. $1.75, bbl. $4.25.

Maggie Murphy. Another large variety, though not equal in size to the preceding. Like that, nearly all are of marketable size. In shape flatish oblong, with shallow eyes. Of fine quality. A desirable sort. Pk. 50c., bush. $1.75, bbl. $4.25.

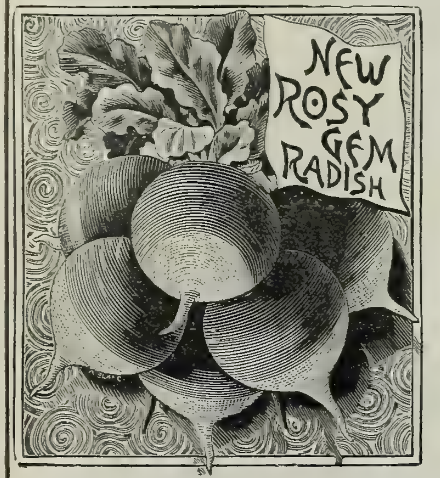
White Elephant. Identical in appearance with the Beauty of Hebron but ten or twelve days later, of stronger growth and a heavier yielder. Pk. 45c., bush. $1.50, bbl. $3.75.

WHILE we expect to maintain the above prices through the season, owing to the liability of the potato market to fluctuate we reserve the right to change without notice. We shall not, however, advance prices unless absolutely necessary, and if there should be any material falling off in prices we shall endeavor to meet them.

RADISH

Early Scarlet Turnip. A small, round variety, with small tops and of quick growth. Popular both for forcing and out-door planting. Deep scarlet.

Early Scarlet Turnip, White Tipped. Roots round, bright scarlet, the lower part white. A rapid grower, well adapted for forcing and used largely for out-door planting, although more liable to be pithy than the Scarlet Globe.



Rosy Gem. Identical with the preceding. Our first trial of it led us to think that it was a selected strain less liable to grow pithy than the White Tipped; subsequent ones, however, have convinced us that there is no difference, but from its popularity with some we feel obliged to catalogue it under this name.

Non Plus Ultra, or Deep Scarlet. One of the earliest; tops very small, especially suited for forcing. Color deep, rich red; form, globular.

Scarlet Globe. The shape of this when large enough for use at first is oval, in later stages of growth is more nearly globular. Brilliant red, which it holds long after pulling. Tops are a little larger than those of some varieties, but it is, nevertheless, largely used for forcing because it is seldom pithy, excelling in this respect any other variety either when planted under glass or out of doors. By far the best of its class for all purposes.

New Early Scarlet Olive Shaped, or Leafless. This differs greatly from the old Olive Shaped, in fact the name is hardly appropriate. It more closely resembles the French Breakfast (though much smaller), having an abrupt termination of the root. It is deeper in color than the Olive Shaped; it has much smaller tops than other varieties, and is, therefore, admirably adapted for forcing, as it can be grown more closely. We cannot recommend it for out-door planting, as with us it has become pithy before attaining a size suitable for pulling.

French Breakfast. A stump-rooted variety; longer than the preceding varieties, often slightly larger at bottom of root than at the top. Bright scarlet, white tipped. An old favorite yet popular for the home garden, but little used by market gardeners.

Early Long Scarlet Short Top. Once the most popular radish, but has been largely displaced in most sections by the round varieties. Grows from six to eight inches long; is ready to pull in twenty-five to thirty days from sowing.

Woods Early Frame. Similar to Long Scarlet, but shorter, of more brilliant color and slightly thicker at top, matures quicker and is more largely used for forcing.

Chartier, or Shepherd. A long variety, distinct, and one of the handsomest. Color, red at the top, shading through pink in the middle to white at the tip. Attains a very large size before being unfit for use. Of too strong growth to be used for forcing, but a desirable variety for out-door growing.

White Strasburg. A fine summer variety, growing about four inches long and two inches thick. Pure white.

Long Black Spanish Winter. One of the hardiest and best for winter use.

Chinese Rose Winter. A popular winter variety, roots cylindrical, slightly larger at the bottom, terminating abruptly. Grows about one-half above ground. Color of upper part scarlet, shading to rose in lower portion; 6 to 8 inches long.

EACH OF ABOVE VARIETIES: Pkt. 5c., oz. 10c., 2 oz. 15c., 1-4 lb. 25c., lb. 75c.

SALISFY ❧ Or Oyster Plant.

Sandwich Island Mammoth. A new and larger growing variety than the old sort. It is claimed of finer flavor. Pkt. 5c., oz. 10c., 2 oz. 20c., ¼ lb. 30c., lb. $1.00.

SPINACH

Round Thick Leaved. The popular variety. Good for either fall or spring planting.

Long Standing. Remains for a longer time than other varieties without running to seed; leaves thick and fleshy. A valuable variety.

Savoy Leaved. The earliest variety; leaves curled and crinkled like the Savoy Cabbage. Should be sown in the fall only, as it runs quickly to seed if sown in the spring.

Each of above, pkt. 5c., oz. 8c., ¼ lb. 15c., ½ lb. 20c., lb. 35c.

SQUASH

Mammoth White Bush Scallop. An improvement on the old variety, larger, pure white and superior in quality. The Scallop varieties, while popular in the South, are but little used in the north.

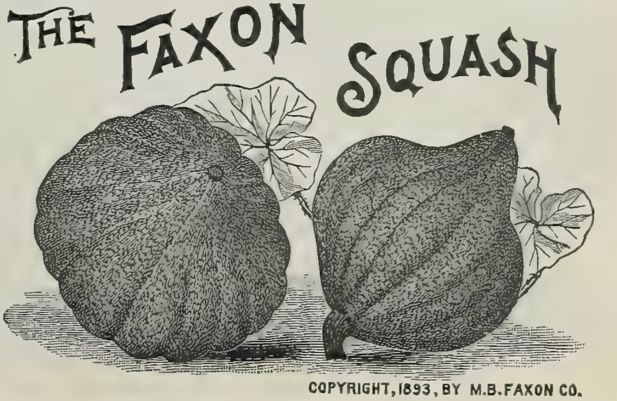
Early Summer Crookneck. For early planting the Crookneck type is used in New England to almost the exclusion of any other. This, while much smaller than the Mammoth Crookneck, is yet largely grown, many considering it of better flavor.

Mammoth Summer Crookneck. This, like the preceding varieties, is of true bush form. The squashes are nearly twice as large as the ordinary Summer Crookneck and more warty. It is generally considered earlier than that. This opinion is held because the fruit attains more quickly a size equal to the ordinary strain when that is mature or fit to eat. If fruit of this were left on the vine until *really in condition to eat*, instead of being taken when half ripe, it would not then be held that it was much earlier, if indeed any. It is because it has been so largely used before reaching a proper size that it is thought by some to be inferior in quality and flavor to the old Crookneck, while it really is fully equal to that.

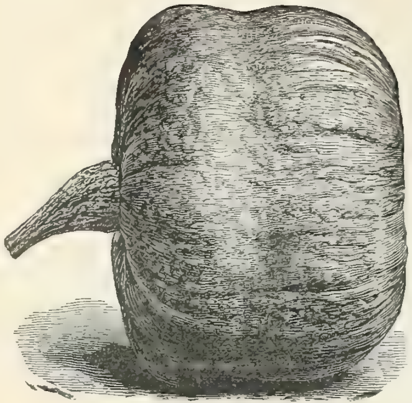
Fordhook. An early running variety, suited for either summer or winter use. Fruit small, oblong, eight to ten inches in length, with smooth, thin skin, bright yellow; flesh straw yellow, dry, sweet and of fine flavor. Excellent for baking or for pies; a remarkable keeper.

The Faxon. A very desirable variety for the home garden. It is very productive, of medium size (five or six pounds), fine grained, dry, sweet, a good keeper, uniform in shape, but varied in color. This variation in color is a distinct feature of the squash. While some of the ripe squashes are pale yellow, with still paler yellow stripes, others are green, mottled and faintly striped with a light green.

Price of each of preceding varieties: Pkt. 5c., oz. 10c., 2 oz. 15c., 1-4 lb. 25c., lb. 75c.



COPYRIGHT, 1893, BY M.B.FAXON CO.



Essex Hybrid.

SQUASH--CONTINUED.

Prolific Marrow. (Dunlap's.) The earliest fall variety; from a week to ten days earlier than any other Marrow. Color deep orange. Skin considerably pitted. Not as thick meated as the Orange Marrow nor quite equal in quality, but especially desirable on account of its earliness and also because it is very prolific. Pkt. 5c., oz. 10c., 2 ozs. 15c., ¼ lb. 25c., lb. 85c.

Orange Marrow. Also an early variety, generally considered identical with the Prolific Marrow, but differs sufficiently to be catalogued as a variety. It is identical in color and pitting but is more nearly round, later, much thicker meated and of better quality. Pkt. 5c., oz. 10c., 2 ozs. 15c., ¼ lb. 25c., lb. 75c.

Boston Marrow. This grows larger than either of the preceding but is not of so deep color. Skin thin, yellow with pinkish tint. Desirable for pies but not as dry as the Hubbard. Pkt. 5c., oz. 10c., 2 ozs. 15c., ¼ lb. 25c., lb. 75c.

Essex Hybrid. A cross between the Hubbard and old Turban, partaking somewhat of the features of both. Like the Hubbard, it is hard shelled. In color it is like the Turban and in form somewhat resembles it, but an improvement. Of fine flavor and quality and an excellent keeper. (See cut.) Pkt. 5c., oz. 10c., 2 ozs. 20c., ¼ lb. 30c., lb. $1.00.

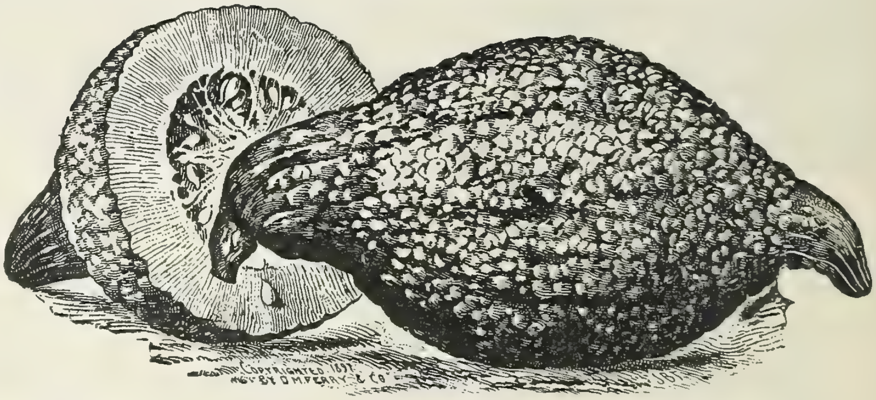
Bay State. Similar in shape to the Essex Hybrid; shell slate color and harder, and flesh is dryer than of that variety. Of excellent flavor and very solid. Pkt. 5c., oz. 10c., 2 ozs. 20c., ¼ lb. 30c., lb. $1.00.

Warren. Similar in shape to the Essex Hybrid, but of richer color, a very deep orange. Shells also are thicker and are rough and warty. Claimed to be of better quality. Pkt. 5c., oz. 10c., 2 ozs. 20c., ¼ lb. 30c., lb. $1.00.

GOLDEN HUBBARD.

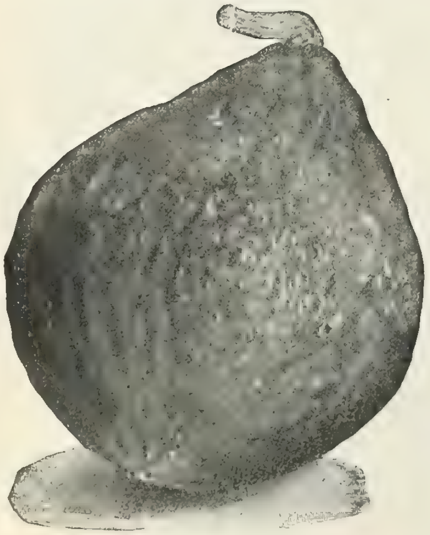
This has now become a standard variety, and as extensive as our list of varieties now is this is yet a decided acquisition.

It is a distinct sort, of the shape and general character of the Hubbard, but a little smaller, earlier to mature, and a rich orange red instead of the dark olive green of the old Hubbard, while the flesh, which is thick, is a little deeper colored, of fully as good quality, fine grained and dry. Pkt. 5c., oz. 10c., 2 ozs. 20c., ¼ lb. 30c., lb. $1.00.



Hubbard. A well-known and favorite winter variety, more largely grown than any other. Very hard shelled, skin dark green, flesh yellow, fine grained, sweet, dry, and of the best flavor. We offer a choice strain, considered by some of our customers to be superior to the popular Chicago Hubbard Pkt. 5c., oz. 10c., 2 ozs. 20c., ¼ lb. 80c., lb. $1.00.

Chicago, or Warted Hubbard. A selection of the Hubbard with thickly warted shell. Equal in quality to that and generally considered to be of more attractive appearance. Of this also we offer a carefully selected strain, unsurpassed by any we have ever seen. Pkt. 5c., oz. 10c., 2 ozs. 20c., ¼ lb. 30c., lb. $1.00.



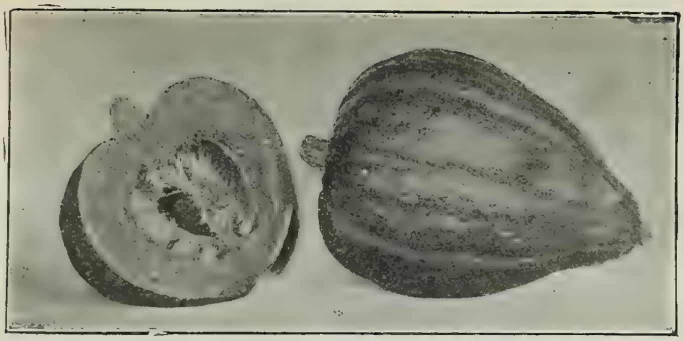
Golden Bronze.

GOLDEN BRONZE. A NEW VARIETY.

The introducers say of it: "A cross, some four years ago, of the Bay State and Boston Marrow. In form the same as the last named, with stem and blossom end precisely like that variety; also having that peculiar wrinkled appearance of the skin like the Boston Marrow. Size averaging from eight to ten pounds; color a dark greyish green, with bronze on upper surface when ripe; flesh an exceedingly bright golden yellow. Fine grained, very sweet and of delicious flavor. Early in maturing, a good keeper and yielder. Squashes are of very uniform size and appearance. As a squash, combining the qualities desired for the table and pies, this has no superior. Specimens grown in 1897 were kept until June, 1898." Pkt. 5c., oz. 10c., 2 ozs. 20c., ¼ lb. 30c., lb. $1.00.

Marblehead. A popular variety in Massachusetts but not so extensively grown elsewhere, as its superior quality warrants it to be. No other variety exceeds it in delicious flavor or dryness, and it is withal productive. Form oval, shell hard, color slate. A good keeper. Pkt. 5c., oz. 10c., 2 ozs. 20c., ¼ lb. 30c., lb. $1.00.

Green Mountain. Fruit uniformly round, symmetrical and larger than the Hubbard, and has a beautiful netting of darker green instead of the wartiness of that variety. Rind thin but hard, flesh very deep, orange red, without any of the objectional green tinge near the rind so common in the best winter sorts. Cooks very quickly and evenly, and is the best of all squashes for pies. Vine hardy, early and certain to mature the large crop it produces. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 75c.



SQUASH—CONTINUED.

The Delicious Squash.

A New Variety.

Originated by Mr. Jas. J. H. Gregory, who in the past has originated and introduced to the public more of the good varieties of squashes than any one else, and whose claims are, therefore, entitled to greater consideration. What he claims for this is shown in the following:

"If any one asks why we have given the above name to our new squash (it is the eighth variety we have introduced) our answer would be, because this is the one adjective most frequently used to express opinions of its quality. The Delicious is the product of the work of years in careful selection, crossing and isolating. The Faxon was our starting point. About every variety we ever knew enters into its composition, among the least desirable of which were several kinds of yellow and the large Brazilian blue varieties. We have been for years engaged in weeding these out, at the same time selecting by the test of cooking the richest among the class bearing a green color, and these we crossed on the Hubbard. From the resulting cross we have been selecting each season for our seed stock the thickest meated specimens and the very best for quality. The final result is a squash that by the universal agreement of those who have tested it, in quality surpasses every one of the fine varieties I have from time to time introduced (these include the Hubbard. Marblehead, Butman, Chestnut, Warren. Victor and Golden Bronze) not even excepting the Hubbard itself as it was a quarter of a century ago when at its best. In form the Delicious ranges between the two examples given above. Its color is almost uniformly of a green shade, with occasionally a blue specimen, it being just about as pure in this respect as was the original Hubbard. In size it also closely follows the original Hubbard, which weighed between five and ten pounds. In thickness of flesh it surpasses nearly every variety, the color being a dark orange. For table use no squash compares with it in its remarkable combination of fineness and compactness of grain, dryness, sweetness and exceeding richness of flavor. It is a fall and winter squash, being excellent at all seasons, but like the old Hubbard, though at any time excellent, does not acquire its best quality until winter. When but half grown it will be found to surpass in quality most varieties when fully ripe."

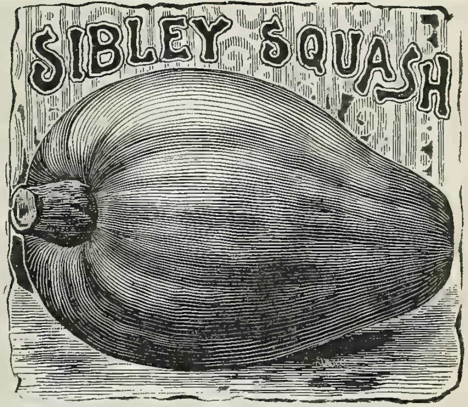
The Delicious will be sold this season only in the packets of the introducer, and by all seedsmen at a uniform price.

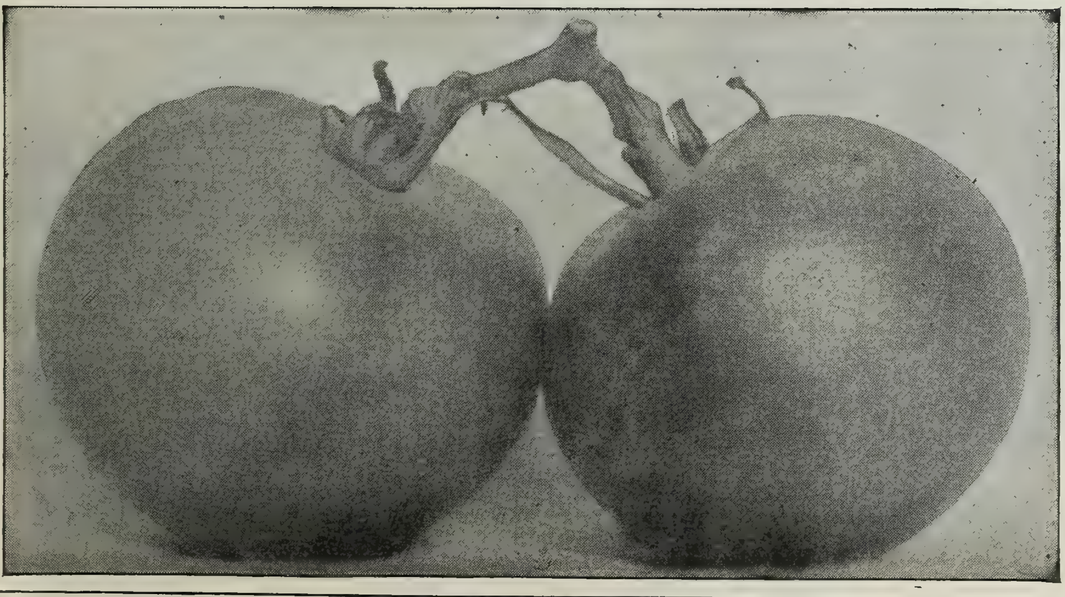
Packet, 15c.; four packets, 50c.

Sibley, or Pike's Peak. The shell is pale in color, very hard and flinty, being at the same time thin and smooth, flesh is solid, thick, vivid, brilliant orange, and is possessed of rare edible qualities, being dry, and really wonderful for fineness of grain and the rich and delicate flavor peculiarly its own. The weight ranges from eight to eleven pounds. Will keep to the last of March. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 85c.

Large Winter Crookneck. Vines resemble those of the pumpkin; seldom troubled by borers; very productive; of fair quality. Pkt. 5c., oz. 10c., 2 ozs. 15c., ¼ lb. 25c., lb. 75c.

Mammoth Chili. The largest variety in cultivation, a squash having been grown in Nova Scotia that reached the enormous weight of 292 pounds. Pkt. 10c., oz. 25c.





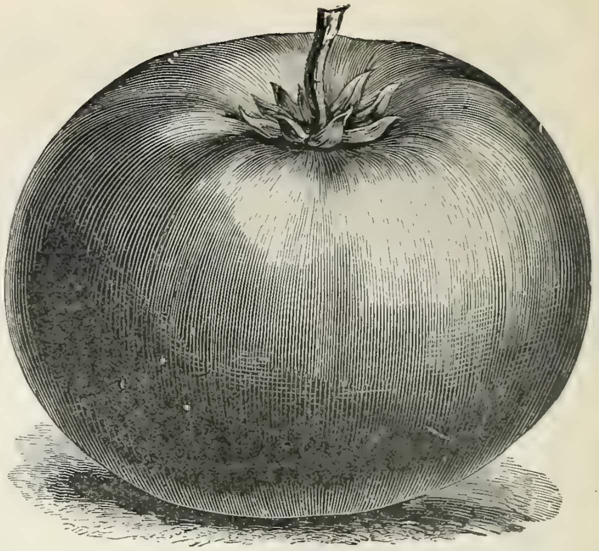
Tomato

EARLY BIRD.

One of the EARLIEST.

Of medium size, smooth, and of excellent form. (See cut.) Color beautiful bright pink. Vine thrifty and productive. Pkt. 5c., ½ oz. 15c., oz. 30c., 2 oz. 50c., ¼ lb. 90c.

TOMATO—CONTINUED.


The Stone.

Sparks' Earliana. The introducers' claim for this that it is the earliest large tomato in the world, which claim is to a great extent substantiated by the many reports they have received and by the general favorable reports of which we have heard. The introducers claim also that this tomato is not only remarkable for its earliness and large size, but that it is of handsome shape and color—a beautiful red—that its solidity and fine quality are unsurpassed by any of the best medium and late sorts, and that it contains less than one-fourth the seed of other varieties. Pkt. 10c., ½ oz. 40c., oz. 75c.

Atlantic Prize. An extra early variety. A decided improvement on the small, rough and generally inferior extra earlies of previous introduction. Compares favorably with the later sorts in size, form, color and quality; color bright red.

Acme. An old, well-known variety, of medium size, round and smooth; color glossy red with purplish tinge.

Livingston's Early Perfection. An improved Acme, with red skin, somewhat larger, fully as early, has more solid flesh and fewer seeds, and produces more and larger fruit at the close of the season.

Livingston's Favorite. One of the best and largest perfect shaped red tomatoes in cultivation. Ripens evenly and as early as any other large red sort. Very prolific, good flavor, few seeds, flesh solid.

Livingston's Beauty. A decided favorite for either home market or shipping purposes, being early, hardy, a strong grower, productive, of large size, always smooth, perfect in shape and excellent in quality. Color a very glossy crimson, with a slight tinge of purple. It grows in clusters of four or five large fruits, retaining its large size late in the season.

Dwarf Champion. Vines dwarf and compact, grow upright and stiff; can be planted closer than most varieties; early and productive. Fruit resembles the Acme.

Dwarf Aristocrat. Similar in habit of growth to the Dwarf Champion, differing in color of fruit, which is red.

Above varieties each, pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 75c.

Ponderosa. Fruit of enormous size, on rich soil with special care, often weighing from one to two pounds; of good form; much superior to the older extra large varieties; extremely solid, having fewer seeds than most other tomatoes; vine of luxuriant growth and productive.

Pkt. 10c., ½ oz. 20c., oz. 35c., 2 oz. 65c., ¼ lb. $1.25.

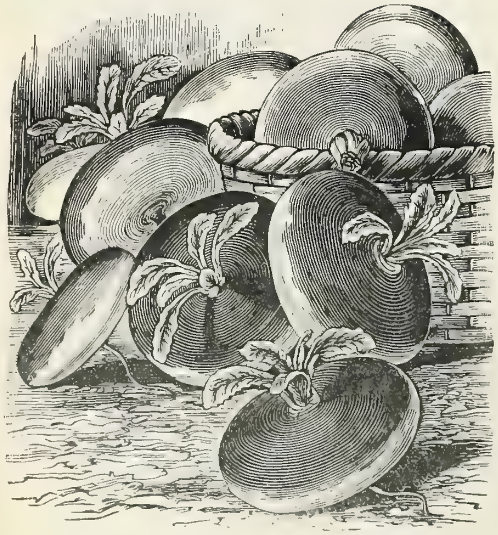
IMPERIAL. | One of the Most Productive.

The Imperial was originated by a market gardener, a large grower of tomatoes, who said of it at its introduction: "My experience with it is that it is the earliest, most solid, and most productive, perfectly smooth tomato on the market. It ripens evenly, is the best flavored and more than twice as productive as any other known variety. It is the handsomest tomato grown; I always get first premium at the fairs." Color purplish crimson. Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 75c.

THE STONE. A FAVORITE FOR MARKET OR SHIPPING.

Since its introduction this has steadily increased in favor with market gardeners on account of its exceptional firmness and great productiveness. Its solidity and carrying qualities are remarkable. Its color is a desirable red; in shape, thicker from stem to blossom end than most varieties; perfectly smooth, making it very handsome and salable. Pkt. 5c., ½ oz. 15c., oz. 25c., 2 oz. 40c., ¼ lb. 75c.

TURNIP


Purple Top Milan.

Early White Milan. The earliest, showiest and best early white turnip ever offered. The pure white roots are very smooth and handsome, tops small, upright and compact, allowing close planting.

Early Purple Top Milan. Similar to the White Milan but a little flatter and purple on top; an excellent variety. Superior to the well-known Purple Top Flat.

Each of above, pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 75c.

Early Purple Top. Strap Leaved. This well-known variety is yet the most popular early one, although not equal to the Early Purple Top Milan.

Early Snowball. Pure white, round, of medium size and fine quality. Fit for use six weeks after planting.

Early Purple Top White Globe. One of the handsomest varieties, the upper portion of the root being a purplish red, the lower pure white. A rapid grower, attaining a marketable size sooner than other large globular varieties. Of the best quality and an excellent keeper. Owing to its strong growth should be more severely thinned than other early varieties.

White Egg. Also a very attractive variety and of superior quality. Egg-shaped, pure white. Grown to some extent for early use, and is a very popular winter variety. A fine keeper.

Yellow Globe. The standard yellow variety. Round, slightly flattened. Largely grown for stock and to some extent for market. An excellent keeper.

Golden Ball, or Orange Jelly. The handsomest yellow variety. We are at a loss to determine why it is not more generally used for market. It is of perfectly globular form and of rich orange color, superior in both shape and color to the Yellow Globe. The flesh is of pale amber tint, fine grained, mild and sweet. It is equal as a keeper to any other variety. Above, except where priced, each, pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c., lb. 50c.

TURNIP—CONTINUED.

Swedish, Russian or Ruta Baga.

White French, or Rock. A very delicate flavored variety; an excellent keeper; fine for table.

Sweet German. A white globe-shaped sort. Superior for table use; of most excellent quality; good keeper.

Breadstone. A medium sized quick growing variety; white, faintly colored at top; exceptionally tender and sweet. One of the best table varieties. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 75c.

Budlong. Originated in Rhode Island by Mr. Budlong, a very extensive grower of Ruta Bagas. Earlier and more nearly round than other white varieties of this class. An excellent strain. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c., lb. 60c.

Shamrock. A popular English Yellow Swede. A decided favorite with our local trade. Has short neck, shape oblong.

Long Island Improved. This is undoubtedly the finest variety of Purple Top Ruta Baga, and is purely of American origin. It often grows to twice the size of ordinary American stocks.

All varieties (except where priced) pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 20c., lb. 50c.

POT HERBS.

	PKT.	OZ.		PKT.	OZ.
CARAWAY,	$ .05	$ .10	SAGE,	$ .05	$ .20
CORIANDER,	.05	.10	SUMMER SAVORY,	.05	.20
DILL,	.05	.15	SWEET MARJORAM,	.05	.20
FENNEL,	.05	.15	THYME,	.05	.40

Grain and Miscellaneous Seeds for Forage Crops

BARLEY. Very largely used in New England as a forage plant. For this purpose sow 2½ to 3 bush. per acre.

Mansury 6 Rowed. Bush. $1.00. **2 Rowed.** Bush. $1.15.

Beardless. Considered by many much more desirable for green fodder and especially so for hay, in that it is free from beards, which are thought to often injure cattle. Bush. $1.25.

BUCKWHEAT. Japanese. Earlier, yields better and grain is larger than other varieties. Bush. $1.25.

OATS. Used extensively for soiling. We offer the heaviest and cleanest seed obtainable. Bush. 60c.

RYE. (Spring.) Also largely used for soiling. Bush. $1.25.

CANADA PEAS. A standard crop for soiling, often sown with oats. Alone, 1½ bush.; with oats, 1 bush per acre. Bush. $1.75.

VETCH. Spring. (Vicia Sativa.) Known also as Spring Tare. Used the same as the Canada Pea, as a green forage plant. May be sown alone, but is generally sown with oats, and requires then from ¾ to 1 bush. per acre. Bush. $2.75.

Winter Sand or Hairy. (Vicia Villosa.) This thrives on poor, sandy soil, and will produce heavy crops of hay or green forage. It is perfectly hardy, may be sown either in spring or fall, and will remain green through the winter. It is claimed to be more satisfactory than Crimson Clover, as it may be sown later and produces a larger crop of green foliage earlier in the spring. It makes an excellent cover crop, preventing washing by winter storms. It may be sown with rye, the latter making a support for the vine. Alone, 1 bush. per acre; with rye, ½ bush. (60 lbs. to the bush.) Lb. 15c., 10 lbs. $1.35, 100 lbs. $13.00.

COW PEA. (Vigna Catjang.) From the Farmers' Bulletin, No. 89, we extract the following: "Cow Peas are in their relationship and habit of growth really beans and not peas. A field of Cow Peas has been very happily designated 'the poor man's bank' for in common with all its leguminous congeners this crop increases the fertility of the soil upon which it grows. This fact has long been accepted by students of agriculture, but until recent discoveries it was believed that the chief function of these plants was to tap the subsoil reservoirs of nitrogen, bringing this valuable fertilizer to the surface for the benefit of succeeding crops. But within the last decade scientific workers have discovered that minute bacteria, which live within the roots of leguminous plants, take up free nitrogen from the gases in the soil. Nitrogen is an indispensable form of plant food, but the free element cannot be utilized by any of the higher organisms. Free nitrogen exists only in the air and in the gases of the soil, but it is present in varying quantities in the soil, rocks and waters. The most available purchasable nitrogen is obtained from nitrate of soda or from some form of animal wastes. These are all expensive, so that they can be profitably employed by the farmer only in extensive farming But every farmer, rich and poor, has over three thousand tons of atmospheric nitrogen resting on every acre of his farm, a certain quantity of which can be transformed into available plant food every time that he grows a crop of Cow Peas, Red Clover or Alfalfa." In view of the above it is easily apparent that this is a very valuable plant for enriching the soil. As a forage plant it is of decided value, and we quote further from the same source concerning its use for this purpose.

"There is no forage plant better adapted to the needs and condition of Southern agriculture than this; and whenever a crop has been taken off a field the surface soil is left richer by a good many pounds of nitrogen. It has been found that the fertilizing value of the roots and stubble are very considerable, but not as great as that of the hay removed from the field. The best and most economical use of this forage crop is, then, to cut for hay, feed to stock, and return the stable manure to the soil."

While no reference is made in the above to its value in the North as a forage plant, we think it has been proven by experiment to be of value here, and we look for an increased use of it for this purpose.

Seed may be planted in drills or broadcast; the amount varying from 4 quarts to 2 bushels per acre, less of course being required if sown in drills 18 to 30 inches apart than when broadcast. It may be covered to the depth of 2 or 3 inches, but should not be planted until ground is dry and warm. Therefore the suggestion that seed be sown in connection with oats appears to us to be an unwise one, as in this section we are obliged to sow the latter as early as possible. We note in the Bulletin to which we have previously referred, concerning the time of sowing, this: "Much of the failure that has attended the attempted introduction of Cow Peas into the Northern States is due to planting before the ground is warm enough."

While there are a large number of varieties, we have not thought it necessary to offer but the following two Of these the first, the Whippoorwill, is here used much in excess of the other.

Whippoorwill. Clay. Each, pk. 85c., bush. $3.00.

SOY, or (as generally incorrectly called) **Soja Bean.** (Glycine Hispida.) This is another valuable legume, yearly growing in popularity as a forage and ensilage plant. From the Farmers' Bulletin, No. 58, we take the following: "It is believed in Japan that in Northern climates soils of a rather strong character are best adapted to the Soy Bean. It is usually sown about the end of May, and when used for hay is cut early in August. In both Europe and America it has been found to thrive best on soils of medium texture that are well supplied with potash, phosphoric acid, and lime It succeeds very well, however, on comparatively light soils, often giving an abundant crop on soils too poor to grow clover. As a general thing, the Soy Bean is not so easily injured by frost as the common field bean, and hence can be planted earlier. While possessed of excellent drought-resisting qualities, it at the same time seems to be able to survive

GRAIN AND MISCELLANEOUS SEEDS.

—CONTINUED.—

a period of excess of moisture better than the Cow Pea or even corn. In a general way the same methods of culture may be recommended as would be given to the ordinary field bean."

"One of the most important uses of the Soy Bean is for green forage—wherever tried it has proved a most valuable forage for milk production. A number of State experiment stations have conducted experiments in making and feeding Soy Bean ensilage, and the results have been quite satisfactory. The silage keeps well, is readily eaten by stock, and the animals show good results in flesh or milk production Again, the crop is an easy one to put into the silo as compared with some others. Excellent results are obtained by making a mixed ensilage of Soy Bean and Corn, Millet, or other crop rich in fat-forming nutrients but poor in muscle-makers. The one crop supplies what the other lacks. There is considerable difference in the amount of seed sown per acre—some sow only about half a bushel, while others prefer a bushel or even more. The proper amount will necessarily vary somewhat, according to the method of seeding and the character of the soil, but in any case it will hardly be necessary to use more than 1 bushel per acre."

Early Yellow. Succeds on any soil but especially well on light sandy or gravelly soil. Can be grown to the Northern limit of bean culture. Pk. 85c., bush. $3.00.

JAPANESE MILLET,

—OR—

JAPANESE BARNYARD GRASS.

(Panicum Crus Galli.) The most popular forage plant ever introduced. Readily eaten by cattle either green or dry.

GOOD FOR SOILING, FOR ENSILAGE, FOR HAY.

Will produce more tons per acre of either green or dry fodder than any other plant of similar nature.

For further description and price, see following page under head of Millets.

Grass Seeds

IT would seem unnecessary for us to make an extended comment on the great importance of a knowledge of grasses to the farmer. That he should have at least a general knowledge of the many species and varieties, the adaptability of each to certain soils or situations, their comparative value regarding nutrition, production, duration, etc., ought to be obvious to all engaged in the culture of grasses.

Custom is not always wisdom; on the contrary is often but another name for ignorance. Knowledge often leads to a departure from custom and generally with profitable result A better information upon this subject would, we feel sure, at least greatly modify the present custom, if not to an extent revolutionize it, in that it would lead to an increased if not general use of many varieties of grasses of which now but little is generally known.

What we think should determine the grasses to be used on a given soil should be, first, the nature of the soil and situation, and perhaps next, whether to be mown or pastured, and also whether intended for temporary or permanent use.

For the many varying natures and conditions of soils, situations, climate, etc., there seem to be grasses especially suitable. Some thrive in one place or soil and and fail utterly in others Some delight in cool moist land and others in dry hot places, and still others seem to have a general adaptability to all soils. Some start very early in the spring, some grow till late in the fall, while others start early, bear repeated cuttings, and grow till late in the season. Some are very productive at once but die out in a few years, while others require a much longer time to become established, are then productive and continue to be so for many years. It is obvious, then, that the farmer engaged in dairy farming or in the production of grass or hay, ought to be as well informed as possible of the nature or characteristics of the different grasses to obtain the most profitable result in his occupation.

The descriptions in the following list have been compiled from various writers interested in the subject either in a scientific way or commercially, modified by the opinions of those engaged in growing grasses as a farm crop. That they may not be entirely correct is probable, but we trust that in the main they are and that they will be of assistance in the selection of varieties for the many different soils, conditions, purposes, etc.

Of the grass seeds which we offer we have only to say that we aim to have the best obtainable. We do not claim to have better than any other dealer, and have but little respect for seedsmen who make such claims. We do, however, claim to have *as good as any and better than some*, and offer them at prices compatible with their quality.

As the market price of the leading varieties of grass seeds is very liable to fluctuate, we are not always able to maintain quoted prices through the entire season, although endeavoring to do so. *These prices are, therefore, subject to change without notice.*

Many of the grasses in the following list are not suitable for sowing alone. We have, however, with each given the quantity required per acre if sown in that manner, which will perhaps aid in determining the amount of each necessary when used in mixtures.

The term Bushel, as applied to grass seeds, and in fact to nearly all other seeds, is an indefinite and misleading one, as the bushel is determined by weight without regard to bulk. We have, therefore, to a great extent, discontinued its use here (as it ought to be entirely in regard to everything), only using it where custom unwisely necessitates it.

—— 25 lbs. will be sent at the 100-lb. rate. ——

Awnless Brome Grass. (Bromus Inermis.) An extremely hardy grass, enduring a wider range of temperature than any other and standing well long droughts. Will produce large crops of hay where most other grasses would perish. While not equal in nutritive quality to that of our standard sorts, it, because of its drought-resisting ability and great hardiness, is very desirable for sowing in dry locations where it would be useless to attempt to grow the more nutritious grasses. Owing to the rapid spreading of its creeping root-stocks and quick formation of new plants, it is difficult to eradicate when once established, and is therefore rather undesirable for temporary meadows. Height, 3 to 5 feet. 35 to 40 lbs. per acre. Lb. 20c., 10 lbs. $1.75, 100 lbs. $15.00.

Canada Blue Grass. (Poa Compressa.) This thrives on a variety of soils and is very hardy. It forms by means of its creeping root-stocks a compact and durable turf of fine texture. It thrives on the poorest and dryest soils, and also on hard clayey ground as well, and grows well in the shade. It withstands remarkably extremes of drought and wetness and will endure severe frost, remaining green later in the season than most other grasses. It is said to be nutritious, and is considered by some to be one of the most valuable for pastures, they claiming that cows feeding on it yield richer milk and also keep in better condition than on other sorts. It differs from the Kentucky Blue Grass in that the stems are flattened, decumbent and wiry, and also in its color, which more nearly approaches blue. It is not as valuable as that variety on good land but is desirable for light soils where many of the more productive grasses would not thrive, and is especially desirable for pasture mixtures designed for poor soils or shady situations. Height, ½ to 1½ feet. 40 lbs. per acre. Lb. 15c., 10 lbs. $1.25, 100 lbs. $10.00.

Creeping Bent Grass. (Agrostis Stolonifera.) This is of rapid growth, fine texture, and of creeping, spreading habit. Its growth is low and compact and its stoloniferous roots form an extremely close sod which endures remarkably constant trampling, if, indeed, it is not thereby improved. It is therefore one of the most valuable grasses for the lawn, and is a component of most mixtures for Tennis and Golf Grounds. Lb. 30c., 10 lbs. $2.50, 100 lbs. $23.00.

Crested Dogs-tail. (Cynosurus Cristatus.) While thriving best on moist rich land, this seems to accommodate itself to nearly all soils. As its roots penetrate the ground deeply it is enabled to withstand severe droughts, making it of value for hilly situations. It also thrives in the shade, It forms a compact, smooth and durable turf, and because of its adaptability to a variety of soils and conditions should form a part of all mixtures for permanent pastures. It is as well a valuable grass for the lawn, and should especially be included in those mixtures designed for shady places. It is very nutritious and tender if cut at time of flowering and is then greedily eaten by cattle, but refused by them if allowed to ripen seed, when it becomes hard and wiry. Recommended to be used to a limited extent in mixtures for permanent mowing as well as for mixtures previously mentioned, but not generally for sowing alone. Would, however, require for that purpose 30 lbs. per acre. Height, 1 to 2 feet. Lb. 40c., 10 lbs. $3.50, 100 lbs. $33.00.

English or Perennial Rye Grass. (Lolium Perenne.) While not a misnomer, the term perennial as applied to this is nevertheless misleading, in that it seems to imply permanency, while under favorable conditions it seldom lasts more than three or four years. It is, however, a very valuable grass, owing to its quick growth, great productiveness and nutritious quality. In Great Britain it is considered the most valuable grass, and holds there the relative position that Timothy does here. While the cool and moist climate of England is especially conducive to its growth it, nevertheless, thrives well in our eastern and middle states and in a great diversity of soils. It makes a strong growth in four or five weeks from sowing, and when cured is sweet flavored and very nutritious, and while the hay is somewhat hard, it is greatly relished by both cattle and horses. It often constitutes a part of mixtures for mowing or pasturing, both temporary and permanent. The objection to it by some for the permanent mixture is not, in our opinion, entirely well founded. We consider it desirable in such mixtures, for the reason that it furnishes at once a large crop of hay or very early feed, as the case may be, and in either occupies the ground at once, and as it dies out its place is filled by those sorts which require a longer time to become established. Its use is advised by some for quick effect on lawns, but it is not generally considered as good as the following variety. Height, 1½ to 2 feet. 60 lbs. per acre. Lb. 12c., 10 lbs. $1.00, 100 lbs. $8.00.

Pacey's Perennial Rye Grass. A selected strain of dwarf habit, desirable for lawns for quick effect, making a fine green turf in a few weeks. Lb. 15c., 10 lbs. $1.25, 100 lbs. $12.00.

Fine Leaved Sheep's Fescue or Slender Fescue. (Festuca Ovina Tenuifolia.) A variety of *F. Ovina* or Sheep's Fescue, having much finer leaves. It thrives on dry and poor soil, bears grazing well, is very hardy and lasting, and is therefore desirable for mixtures designed for permanent pasture on dry, hilly situations. It is of dwarf habit, which, with its fineness of leaf, makes it of value for dry slopes on the lawn. Height, 1 to 2 feet. 35 lbs. per acre. Lb. 40c., 10 lbs. $3.50, 100 lbs. $33.00.

Fowl Meadow. (Poa Serotina.) This grass grows abundantly in almost every section of New England, and in portions of the Middle and Western States, especially where it has been introduced and cultivated in suitable ground, such as the borders of rivers and places occasionally flooded. It never grows so coarse or hard but that the stalk is sweet and tender, and eaten without waste. It is easily made into hay, and is a nutritive and valuable grass. It does best used in mixtures. If sown alone, 30 to 35 lbs per acre. Lb. 40c., 10 lbs. $3.80, 100 lbs. $35.00.

Hard Fescue. (Festuca Ovina Duriscula.) This also is a variety of Sheep's Fescue, of dwarfer habit and not as vigorous in its growth. It is especially desirable for dry, shallow soils, and is, like all varieties of Sheep's Fescue, very hardy, withstanding extremes of heat and cold and long periods of drought. It is probably of most value as a pasture grass on sandy soils, though it may often be used to advantage in meadow mixtures for well-enriched clayey lands and will there often yield a good crop of hay and a heavy aftermath. Recommended by some for lawns. An objection to it, however, for that purpose is found in its stooling habit. Height, 1 to 2 feet. 30 lbs. per acre. Lb. 20c., 10 lbs. $1.75, 100 lbs. $15.00.

Italian Rye Grass. (Lolium Perenne Italicum.) This, like the Perennial Rye Grass, is of very rapid growth. With this in its favor that it better withstands extremes of temperature and long drought. It is at its best on moist fertile soils of medium consistency, yielding a large crop in four or five weeks from sowing, and after that at intervals of six weeks until late in the fall. It is largely treated as an annual, that is, used for soiling, but is of value in mixtures for temporary meadows but should not enter to any great extent, if at all, mixtures for permanent purposes on account of its short life, which is seldom over two years. Height, 1½ to 2½ feet. 50 lbs. per acre. Lb. 12c., 10 lbs. $1.00, 100 lbs. $9.00.

Kentucky Blue Grass. (Poa Pratensis.) This well-known grass is one of our most valuable, probably combining more points of excellence than any other. It takes two or three years to become established, but will then last almost indefinitely. It succeeds in nearly all soils, starts early in the spring and lasts until frost. It is productive and nutritious and may be used to great advantage in all mixtures for permanent meadows or pastures. Its smooth even growth, fine soft texture and pleasing color, combined with the firm, close turf formed by its many rootstalks, makes it one of our most valuable lawn grasses. Height, ¾ to 1½ foot. 40 to 50 lbs. per acre. Lb. 16c., 10 lbs. $1.40, 100 lbs. $13.00.

Meadow Fescue or English Blue Grass. (Festuca Pratensis.) This also, like the preceding, is one of our very valuable grasses, and is probably nearly as largely used as any in the various mixtures, both for permanent and temporary meadows and pastures. It succeeds best in cool, moist, light soils, and no attempt should be made to grow it in warm, dry land. When fully established, which takes two or three years, it much exceeds most other grasses both in the quantity and quality of its product. It is very nutritious, and cattle are very fond of it if cut at the proper time which, as with most grasses, is when in full bloom or soon after. Height, 2 feet. 40 lbs. per acre. Lb. 25c., 10 lbs. $2.25, 100 lbs. $20.00.

Meadow Brome Grass. (Bromus Pratensis.) This, like the Awnless Brome Grass, is very hardy, withstanding extremes of cold and drought. It is recommended for mixtures both for pasture and mowing, but is not recommended for sowing alone except on pooor lands or dry, gravelly hillsides, where grasses of more value will not thrive. It makes good hay if cut before flowering, but later becomes woody and tough. Height, 2½ to 3½ feet. 30 lbs. per acre. Lb. 25c., 10 lbs. $2.25, 100 lbs. $20.00.

Meadow Foxtail. (Alopecurus Pratensis.) An extremely early species, succeeding best on low, moist ground, but adapting itself to higher and dry situations, and withstanding remarkably the burning heat of our summer. It is one of the best grasses for permanent pasture on moist soils, furnishing feed for cattle earlier than any other variety; requiring a long time to develop, should never be sown alone. Height, 2 to 3 feet. Lb. 30c., 10 lbs. $2.75. 100 lbs. $25.00.

Orchard Grass. (Dactylis Glomerata.) One of our most popular grasses, which should, in the opinion of those seemingly best fitted to judge, form the base of most mixtures, both for permanent meadows and pastures. Next to Meadow Foxtail it is the earliest grass, grows in a diversity of soils, succeeding best on those containing some clay and not holding too much water, bears frequent cutting and close cropping, and is very productive and nutritious. It thrives in the shade, hence its name, exceeding in this respect any other grass except the Rough Stalk Meadow (Poa Trivialis). Blossoming with Red Clover it forms with that an excellent combination for temporary mowings. Stock of all kinds eat it readily when young. Cut at the proper stage it makes a much better hay than Timothy, is greatly preferred by animals, is more nutritious, and will greatly outyield it in a season, as it grows very quickly after cutting and yields a much heavier aftermath, exceeding in this respect most other grasses. The only objection urged against it is its tendency to grow in bunches or tussocks, which can in a measure be obviated by sowing with other grasses. In fact those most familiar with it say that it is unprofitable to sow it alone in meadows or pastures, as it stands too thin upon the ground, and the filling up of the interstices with other grasses greatly improves the quality of it by restraining its rankness and making it more delicate. Its tendency to grow in bunches entirely unfits it for the lawn. Height, 2 feet. 40 to 50 lbs. per acre. Lb. 16c., 10 lbs. $1.40, 100 lbs. $13.00.

Red or Creeping Fescue. (Festuca Rubra.) A valuable grass for exposed banks, growing in light sandy or gravelly soils and resisting extreme droughts. Its creeping roots form a close, durable turf, making it of value for lawns and golf grounds, and it may be used to advantage in mixtures for shady portions of the lawn. 30 lbs. per acre. Lb. 20c., 10 lbs. $1.85, 100 lbs. $17.00.

Red Top. (Agrostis Vulgaris.) This well-known grass, succeeding best on moist lands, accommodates itself to a variety of soils, often growing fairly well on light dry lands, which accounts for its great popularity, being in the eastern states at least next to Timothy, the most popular grass. It is, however often used like Timothy, to an extent not warranted and in situations where other grasses would probably be more profitable because better adapted to them. It stands well our hot climate, is a permanent grass is not greatly affected by trampling, and enters largely into the composition of our natural pastures, that is, those on moist lands. It is of fine growth and forms a close turf which, with its permanency, makes it valuable in lawn mixtures. Height, 1 to 2 feet.

Extra Clean or Fancy Seed—entirely free from chaff. 20 lbs. per acre. Lb. 13c., 10 lbs. $1.25, 100 lbs. $11.00.

Common or Chaff. 50 to 60 lbs, per acre. Lb. 7c., 10 lbs. 60c., sack of 50 lbs. $2.50.

Rhode Island Bent. (Agrostis Canina.) This resembles the preceding but has shorter and narrower leaves, is dwarfer in its habit, and thrives in a wider range of soils. It is one of the most valuable grasses for the lawn, forming a firm, close, durable turf, and is of the softest, finest growth. Height, 1 to 2 feet. 40 lbs. per acre. Lb. 25c., 10 lbs., $2.25, 100 lbs. $20.00.

Rough Stalk Meadow Grass. (Poa Trivialis.) Of spreading habit and very stoloniferous. It thrives on moist rich soils and is valuable in pasture mixtures for moist lands, making a fine bottom growth. It excels all other grasses except, perhaps, Orchard Grass, in growing in the shade, and being otherwise suitable should always enter into mixtures for shady lawns. Height, 1½ to 2½ feet. 20 lbs. per acre. Lb. 35c., 10 lbs. $3.25, 100 lbs. $30.00.

Sheep's Fescue. (Festuca Ovina.) This, like its varieties previously mentioned, thrives in dry, shallow, poor soils, and is very hardy. It is of dwarf but thick growth, producing a large amount of herbage, which is very nutritious and of which sheep are extremely fond. It is valuable in pasture mixtures for high and dry situations and is often used in lawn mixtures, for such places, though somewhat inclined to grow in bunches. Height, 1 to 1½ feet. 35 lbs. per acre. Lb. 20c., 10 lbs. $1.75, 100 lbs. $15.00.

Sweet Vernal Grass. (Anthoxanthum Odoratum.) Valuable for its early and late growth, continuing to throw up root foliage until late in the fall. Of but little value as hay, being of scanty growth and not nutritious. Desirable in meadow mixtures on account of its pleasing odor, sweetening hay, and acting in the nature of a condiment for cattle. Height, 1 to 1½ foot. From ½ to 1 lb. per acre with other grasses. Lb. 75c.

Tall Fescue. (Festuca Elatior.) This thrives best on strong, moist, clayey soils, is very productive and permanent. It is very nutritious, and is readily eaten by all kinds of stock. On suitable soil it yields large crops of hay, and should enter into all mixtures for permanent meadows and pastures designed for moist land. Height, 3 to 4 feet. 40 lbs. per acre. Lb. 30c., 10 lbs. $2.75, 100 lbs. $25.00.

Tall Meadow Oat Grass. (Avena Elatior.) A very hardy species, withstanding extremes of heat and cold, making a very early and luxuriant growth and continuing until late in the fall. It is considered in the south the best winter grass. It succeeds best on deep sandy soils. When used for soiling it may be often cut, four or five times in favorable seasons, and twice for hay, and should be cut for that purpose as soon as it comes into bloom. Cattle are then fond of it. It is especially valuable for pastures on account of its early, rapid and late growth. Height, 2 to 4 feet. 50 lbs. per acre. Lb. 25c., 10 lbs. $2.00, 100 lbs. $18.00.

Timothy. (Phleum Pratense.) So well known is this that no description is really needed. It thrives best on moist, loamy or clayey soils, but is largely used on others and doubtless often where other grasses would succeed better. Its extensive use is probably in a measure due to the fact that those who have hay to sell find that no hay sells as well in our city markets as pure Timothy. It undoubtedly is, for temporary meadows on favorable soils, one of our most valuable grasses, but for permanent meadows, especially on comparatively light soils, is not as desirable as some others. If sown alone, from three-fourths to a bushel per acre (45 lbs. to the bushel). Lb. 8c., 100 lbs. $6.00.

We Do Not Send Grass Seeds Postpaid. **If Small Quantities are Desired Sent by Mail,** **Add 8 Cents Per Pound to Price Quoted.**

Various Leaved Fescue. (Festuca Heterophylla.) An early and very hardy grass, thriving best in cool, moist soils, and is very productive on such when they contain sufficient humus and potash. It produces a large amount of root leaves, making it an excellent bottom grass. It is said to be very nutritious, and is desirable in mixtures for both permanent meadows and pastures. It grows well in the shade, and being of fine growth is especially desirable in mixtures for shaded lawns and parks. Height, 2 to 3 feet. 40 lbs. per acre. Lb. 30c., 10 lbs. $2.75, 100 lbs. $25.00.

Wood Meadow Grass. (Poa Nemoralis.) A very early and permanent grass, especially valuable for shaded lawns and parks; very hardy, withstanding extremes of temperature; roots creeping, forming a close turf. Desirable for permanent pastures and in good soil for hay. 30 lbs. per acre. Lb. 40c., 10 lbs. $3.75, 100 lbs. $35.00.

Add 8 cents per lb. to all prices given in the foregoing list when same is desired sent by mail.

MILLETS.

Hungarian Grass. (Panicum Germanicum.) Used extensively in New England for forage and to some extent for hay. It withstands drought well, succeeds on any ordinary soil, and on rich land two crops may be grown the same season. 48 lbs. to the bushel. One bushel per acre. Bush. $1.65.

Common Millet. (Panicum Miliaceum.) Of somewhat ranker growth than Hungarian and with a more open or loose head. Seed very closely resembles that of German Millet. 50 lbs. per bush., 1 bush. per acre. Bush. $1.50.

German or Golden Millet. (Setaria Italica.) Of stronger, ranker growth than either of the preceding and requires richer land. It has an abundant foliage; is, therefore, an excellent forage crop and makes a coarse, rather harsh hay, but which is readily eaten by all kinds of stock if cut at the proper time. 50 lbs. to the bushel, ¾ to 1 bushel per acre, Bush. $1.65.

Siberian or Russian Millet. Of this comparatively new Millet the largest dealer in grass seeds in this country says: "Siberian, sometimes called Russian Millet, has been grown for a number of years past in this country and has largely taken the place of German and Common Millet, as well as Hungarian. We have made extensive inquiries and the general reports are that the plant grows larger than Common Millet, with beard and chaff similar to Hungarian; the plant making a ranker growth, produces more leaves than either Common Millet, German Millet, or Hungarian, leaves starting close to the ground and continuing nearly to top of stem; leaves wide and tender, making it preferable to other Millets for hay. Yields a hay reported ⅓ to ½ more per acre, besides hay softer when cured, greener in color and preferred by stock to other hay or millets. It matures about the same time as Common Millet and Hungarian and earlier than German Millet; it is claimed that it will stand drought better than other varieties of Millet. It has been a success in sections where season is too short to mature a corn crop." ¾ bush. per acre. 50 lbs. to the bush. Bush. $1.25.

Japanese Millet. (Panicum Crus Galli.) This comparatively new yet popular forage plant is of very rank growth, from six to seven feet high, with much larger leaves than any of the preceding. Like all coarse growing plants it needs abundant plant food, and when given this on good soil the yield is immense. While its use has been largely confined to soiling purposes, it may be used for ensilage, and is, when cut at the proper stage and made into hay, readily eaten by both cattle and horses. Probably no other forage plant ever sprang so quickly into popular favor, and that it will continue to occupy a prominent place among our forage plants is without doubt. It may be sown from May 15th to July. 15 lbs. per acre. Lb. 12c.; lb. by mail, 20c.; 15 lbs. or over, 10c. per lb.

Pearl or Egyptian Millet. (Pencillaria Spicata.) A very rank-growing grass, attaining a height of six or more feet. Popular in the South as a fodder plant, but as yet little used in the North, although it has for many years been offered under various names. Whether it would be of value for ensilage we are not aware. Lb. 12c., 10 lbs. $1.00.

CLOVERS.

Medium Red. (Trifolium Pratense.) This well-known plant, one of the most valuable, especially in the eastern states, needs no description. It is sufficient to say that its great value either for soiling, hay pasturing or for turning under for green manure, and the improved condition of the land on which it has been grown, gives it its deserved popularity. Lb. 14c., 100 lbs. $13.00.

Mammoth or Pea Vine. (Trifolium Pratense var.) A variety of the preceding, growing taller and lasting longer. Very valuable for plowing in. Lb. 15c., 100 lbs. $14.00.

Alsike or Swedish. (Trifolium Hybridum.) A very hardy variety, succeeding best in stiff, cold soils, and in those too wet for the other species. It is continually growing in popularity and should enter into all pasture mixtures for moist or wet lands. Lb. 18c., 100 lbs. $17.00.

White Clover. (Trifolium Repens.) This thrives in nearly all soils and situations, withstanding extremes of heat and cold, dryness and humidity. It is of low growth and spreads rapidly, the stems creeping and rooting at the joints. It well bears trampling and is valuable for both pasture and lawn mixtures. Lb. 25c.

Crimson Clover. (Trifolium Incarnatum.) An annual which has been largely grown in the south for plowing under, and to some extent in the north for the same purpose. In the north, treated as an annual for soiling and perhaps for hay, sown in the spring either alone or with Italian Rye Grass it no doubt is of great value, but in this section and as far as we can learn all attempts to winter it north of New Jersey have largely resulted in failure. 20 lbs. per acre. Lb. 8c., 100 lbs. $7.50.

Alfalfa or Lucern. (Medicago Sativa.) There having been more or less contention among those seemingly fitted to be authorities on the subject as to whether Alfalfa can be profitably grown in the northern and eastern states, we are somewhat in doubt as to the advisability of recommending it for this section. We, however, quote from a Farmers' Bulletin (No. 31. Alfalfa or Lucern) issued by the Department of Agriculture at Washington, D. C., whose opportunity for general observation certainly is not exceeded by any others. "Alfalfa has been grown with more or less success in every State and Territory in the Union, from Maine to Washington and from California to Florida. There is not a State from which the report has not gone out that Alfalfa will, when properly treated, become one of the best fodder plants. It is the best hay and soiling crop in the West. In the South it has been widely recommended as a very valuable addition to the list of forage grasses and clovers. In the Middle and Eastern States it promises to become a rival of the better known and more widely grown Red Clover." Its roots often reach the depth of 10 to 15 feet. It, therefore, requires a deep, rich, well-drained soil, and on such is capable of resisting long droughts. It should be sown alone (15 to 25 lbs. per acre) and cut as it begins to bloom. Height, 1 to 3 feet. Lb. 18c., 100 lbs. $17.00.

MIXTURES OF GRASS SEEDS. FOR MEADOWS, PASTURES AND LAWNS.

Our Regular Mixture for Permanent Mowing for Average Soil.

In view of what we have previously said concerning a combination of several grasses we would say further that it seems to us to be beyond dispute that a thicker growth, therefore larger yield, may be obtained by sowing a mixture of many varieties than by the use of one or a few. Many of the grasses of fine growth are rich in nutritive quality and of heavy bottom growth, but their scanty top growth makes them unsuitable for sowing alone. Combined, however, with those of coarser and taller growth, they fill the interstices, restraining the rank growth of the latter, making them thereby more tender and greatly increase the total yield, the whole producing not only a larger yield and much heavier aftermath at once, but if properly combined for many years. This mixture was devised after careful study of the various authorities, assisted by the experience of those engaged in grass farming. It is designed for the average soil (neither unusually wet nor dry). We advise a minimum sowing (which may sometimes be profitably increased) of 40 pounds per acre. This includes 6 pounds of Mixed Clovers which, from their greater weight, should be sown separately, and in this latitude in the spring or not later than August. As these are always included (but in separate package) no reference need be made to them unless it be in the fall, when, if not desired, it should be so stated, otherwise they will then as usual be sent. Lb. 14c., 100 lbs. $13.00.

Our Special Mixture for Permanent Mowing for Dry Soils.

This is prepared from varieties which are especially adapted to high and dry soils and, while probably it will not prove as productive as the preceding would if sown on good average soil, it will, we feel sure, prove greatly superior in results to those obtained from the use of the few generally sown, which are not only inadequate but also unsuited to the purpose. 40 pounds per acre, including 4 pounds of Mixed Clovers. Lb. 14c., 100 lbs. $13.50.

Our Special Mixture for Permanent Mowing for Wet Soils.

This, like the preceding, is a special mixture, but designed for soils of an opposite nature. If sown on land not too wet, that is, not swampy (it is of course understood there is a limit both as to wetness and dryness as to where grasses will thrive), this will produce large crops of excellent hay for many years. 40 lbs. per acre, including 3 lbs. of Mixed Clovers. Lb. 14c., 100 lbs. $13.50.

MIXTURES OF GRASS SEEDS—CONTINUED.

Our Regular Mixture for Permanent Pastures.

As fully important is it, and perhaps more, when laying down a pasture, that it be properly seeded, as the meadow, and more often is it desired to have it permanent. We have before referred to the different characteristics of the different grasses, which also are shown in the descriptions. We again call attention to some of them. Some grasses start early in the spring, some much later, others in the intervening time. Some of these are at their best early in the season, others at midsummer, while others continue to grow until the ground freezes. Some bear trampling without serious if any injury, while others do not seem to be at all injured by close and constant cropping. It would seem obvious then, that if a number of these grasses having these different characteristics were combined that a pasture might be established from which early and continuous feed might reasonably be expected, and also that if the right ones were selected a permanent production might also be secured. This mixture was, therefore, devised to secure just these desirable results—continual feed from early to late in the season and permanence. It is designed for the average soil. We advise a minimum sowing of 40 pounds per acre, which includes 6 pounds of Mixed Clovers, and which for reasons previously stated (see Regular Mixture for Mowing) are put up in separate package. Lb. 14c., 100 lbs. $13.00.

Our Special Mixture for Permenant Pastures for Wet Soils.

This, like our Special Mowing Mixture for Dry Soils, is composed of varieties especially adapted to such soils, and with this as with all others our object has been to make a mixture not only continuously productive for the season but for as many years as possible. 40 pounds per acre, including 4 pounds of Mixed Clovers. Lb. 14c., 100 lbs. $13.50.

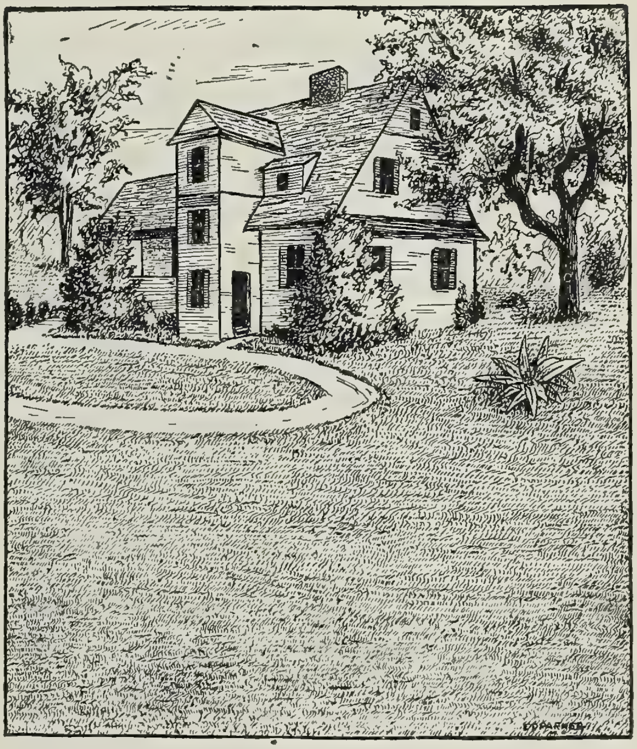
Our Special Mixture for Permanent Pastures for Dry Soils.

This, while containing some of the grasses which are in our Regular Mixture (in different proportions, however), also contains others which thrive on wet or very moist land. For this we claim the same probably superior results to those obtained by the present custom of using but two or three varieties. 40 pounds per acre, including 3 pounds of Mixed Clovers. Lb. 14c., 100 lbs. $13.50.

THE WORCESTER Lawn Grass.

— THE BEST. —

Probably above all Mixtures of grass seeds that for the lawn is one that is desired to be permanent in its results. Other considerations are, that not only shall the effect be permanent but it is also desirable that it shall be secured as soon as possible; therefore the mixture should contain some varieties which are of early and rapid growth. It is obvious that all the grasses should be of fine, soft growth, and also that they must be capable of bearing constant trampling and frequent cutting. Simply stated, the WORCESTER LAWN GRASS MIXTURE is a combination of such varieties as years of experience and observation have shown us are those best suited to meet the requirements. In this selection of varieties we have those that grow and thrive at different times of the year—insuring *early and constant verdure through the season*, those that are remarkable for their enduring and tenacious qualities—insuring *a degree of safety through severe drought*, those that not only bear constant trampling and frequent cutting *but which actually improve by it*, and those which are long-lived or perennial—insuring *permanency*. This mixture is designed for the average soil and on such soil, properly prepared and enriched, will produce a fine, velvety growth the first season, and for years if properly treated. It contains nothing but extra clean or recleaned seeds, is as free from weed seeds as it is possible to make it with improved machinery, and is exactly what we claim—*the BEST that can be made.* We offer this only by weight, and at the price per pound it is actually much cheaper than that offered by many dealers at the same price per quart. This should be sown at the rate of 75 to 85 lbs. per acre. A 1 lb. pkg. will therefore be required for about 500 square feet. 1 lb. pkg. 25c.; 4½ lb. pkg. $1.00; 10 lbs. or over in bulk, 20c. per lb.



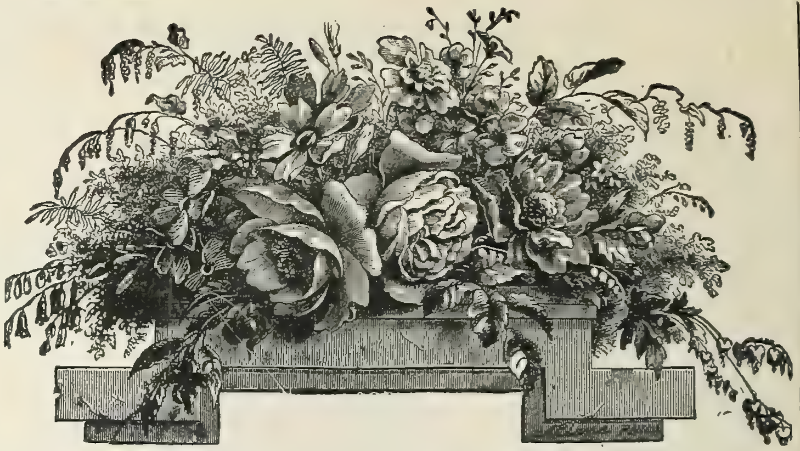
THE PARK LAWN GRASS.

GOOD. There being some demand for a cheaper mixture than the preceding suitable for large areas, parks, etc., as well as for smaller plots like the back door yard, we offer this mixture. We claim for this an equality with much that is sold and generally at much higher prices than our price for this. While of course not equal to the preceding, it is by no means a poor or worthless mixture. Simply stated, this is *good;* the Worcester BETTER. In making this mixture we have as far as possible, that is considering the price, conformed to the ideas previously expressed as to what grasses should enter into a mixture for the lawn. Although opposed to the term quart and bushel because they are indefinite when applied to grass seeds, proven by the fact that all dealers have to determine the bushel by weight, we feel, however, to meet competition, compelled to conform to the custom to some extent, and so offer this mixture by the quart, etc. Sow from 3½ to 4 bushels per acre. A quart package is sufficient for about 300 square feet. 1 qt. pkg. 15c.; 4½ qt. pkg. 60c.; bush., of 20 lbs., $2.50.

Special Lawn Mixture for Shady Places.

It certainly is displeasing, to say the least, when the larger part of the lawn presents an attractive appearance that its effect should be marred by bare, unsightly spots under the trees. This may, however, to an extent be obviated by sowing grasses which thrive in the shade. This mixture is composed of such varieties and which do not to any extent enter into the ordinary or regular mixtures. We would mention that where the shade is very dense it often happens that the soil is sour, and if moss has covered the ground it is a sure indication that this is the case. If so, the moss should be removed, the soil thoroughly worked over and enriched, and an application of slaked lime made at the rate of one bushel to the thousand feet. Per lb. 35c.; 4 lbs. $1.25; 10 lbs. or over, 30c. per lb.

Ross Brother's Reliable Flower Seeds.



POSTAGE PREPAID ON ALL FLOWER SEEDS BY THE PACKET, OUNCE OR QUARTER-POUND AT PRICES QUOTED.

ORDER BY NUMBER AS WELL AS NAME.

ABRONIA.

1—**Umbellata**. A beautiful little trailer suitable for vases, rock-work, etc. Flowers fragrant, rosy pink, borne in large trusses. Half hardy annual; ¾ ft........................5c.

ACROCLINIUM ✤ Everlasting Flower.

A free-flowering plant, suitable for garden culture. Flowers when dry are largely used for winter bouquets. Half hardy annual; 1 ft.

2—Double, mixed colors..................................5c.

ADLUMIA ✤ Mountain Fringe—Allegheny Vine.

3—**Cirrhosa.** A beautiful climber with graceful, feathery foliage, bearing freely all summer small rose colored flowers. Hardy biennial; 15 ft..................................5c.

ADONIS ✤ Pheasant's Eye—Flos Adonis.

4—**Autumnalis.** A free-flowering garden plant with finely cut dark green foliage, bearing blood-red flowers. A popular and desirable plant, remaining in bloom for a long time; of easy culture. Hardy annual; 1 ft........................5c.

AGERATUM

Favorite annual plants, profuse and continual bloomers, growing from six inches to two feet in height. The tall varieties are very suitable for planting in clumps or masses, producing a striking effect and furnishing an abundance of cut flowers. The dwarf varieties are very desirable for edgings, and both make excellent pot plants.

5—**Mexicanum.** Lavender blue; 2 ft.....................5c.
6—**Album**. White; 2 ft.................................5c.
7—**Little Dorrit**. Azure blue, very compact; ½ ft.........5c.
8—**Imperial Dwarf**. White; ¾ ft........................5c.
9—Mixed Colors..5c.

AGROSTEMA.

Pretty, free-blooming plant, useful both for cutting and bedding.

10—**Cœli-rosa** (Rose of Heaven) rose, white center. Hardy annual; 1 ft...5c.

AQUILEGIA ✤ (Columbine).

Hardy herbaceous perennials, deserving a place in every collection of perennials. Flowers curiously and gracefully formed and beautifully colored; of easy culture; 1½ to 3 ft.

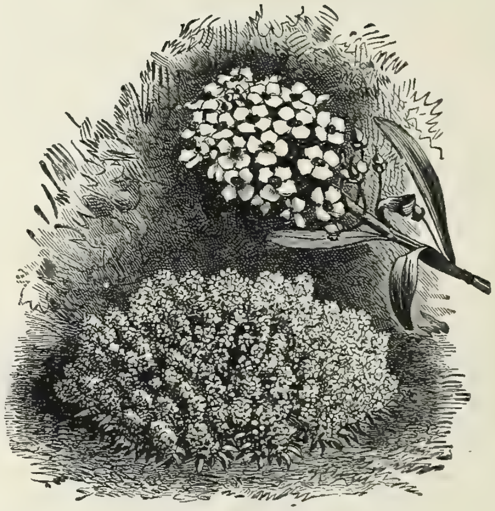
11—Mixed Colors...5c.

ASPERULA ✤ Sweet Woodruff.

12—**Odorata**. A free-blooming plant, bearing fragrant blue flowers which remain a long time in bloom. Hardy annual; 1 ft...5c.

ALYSSUM

A well known favorite hardy annual, blooming profusely the entire . . season. . . . . .



Sweet Alyssum.

13—**Sweet Alyssum.** Fragrant white; 1 ft. Oz. 25c., ½ oz. 15c......5c.

14—**Little Gem**. Dwarf, growing but a few inches high, of spreading or trailing habit, forming compact masses of bloom often a foot or more in diameter; very useful for edgings. Oz. 40c., ½ oz. 25c....5c.

AMARANTHUS.

Ornamental foliage and flowering plants, very showy and interesting, of rapid growth and easy culture; color of foliage will be better if planted on rather poor soil; half hardy annuals.

15—**Caudatus.** (Love-lies-bleeding.) Long, drooping flower, spikes dark red..5c.

16—**Tricolor.** (Joseph's Coat. Red, yellow and green foliage, 3 ft..5c.

17—**Salicifolius.** (Fountain Plant.) Graceful, drooping leaves, varying from green to bronze, banded and tipped with carmine..5c.

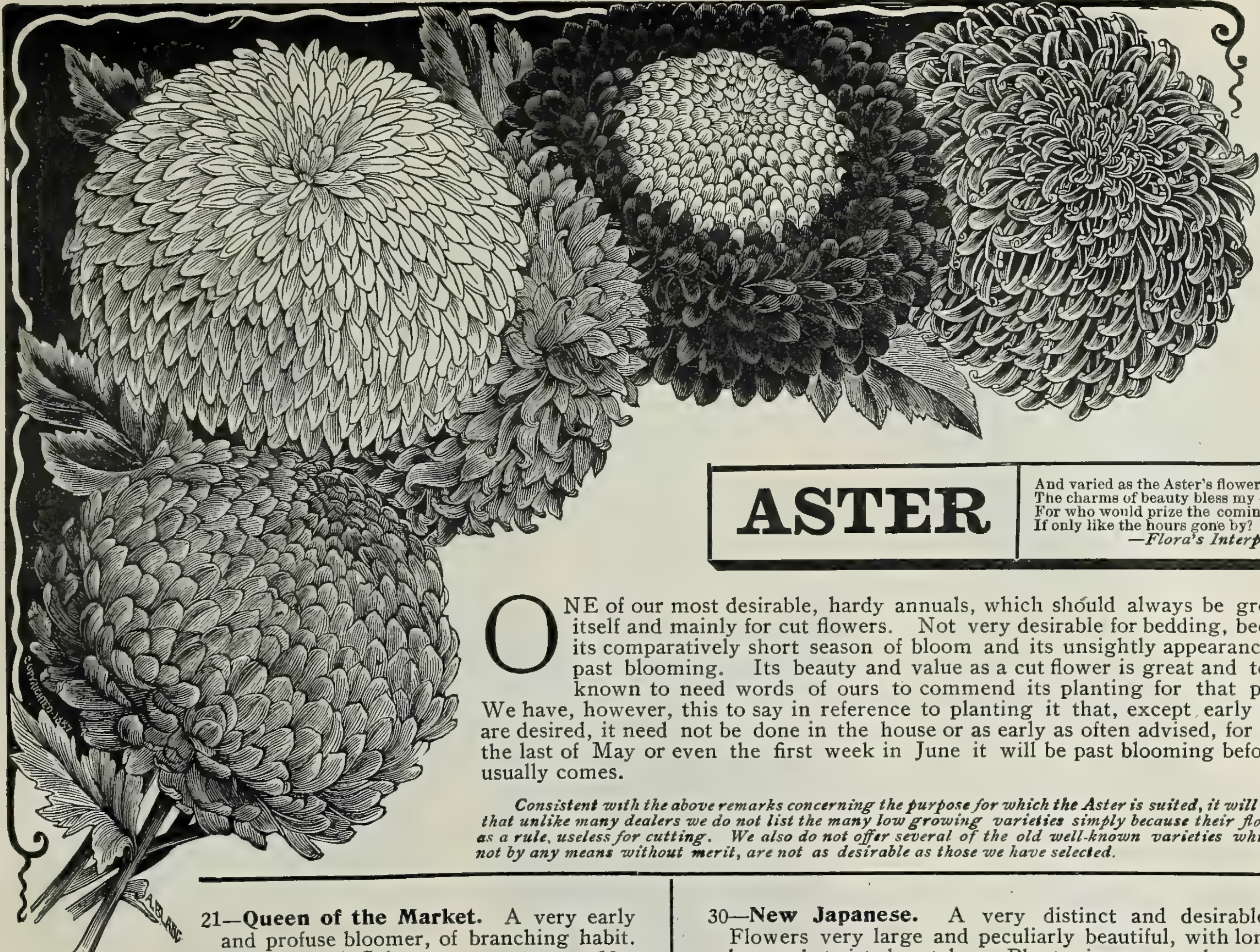
18—**Mixed Varieties,** including above and others.........5c.

ANTIRRHINUM ✤ Snap Dragon.

Well known favorite border plants, half hardy perennials, flowering first year from seed sown in spring.

19—**Tall Varieties**. Mixed Colors ; 2 ft..................5c.

20—**Dwarf or Tom Thumb Varieties.** Mixed Colors....5c.



ASTER

And varied as the Aster's flower
The charms of beauty bless my eye—
For who would prize the coming hour,
If only like the hours gone by?
—*Flora's Interpreter.*

ONE of our most desirable, hardy annuals, which should always be grown by itself and mainly for cut flowers. Not very desirable for bedding, because of its comparatively short season of bloom and its unsightly appearance when past blooming. Its beauty and value as a cut flower is great and too well known to need words of ours to commend its planting for that purpose. We have, however, this to say in reference to planting it that, except early flowers are desired, it need not be done in the house or as early as often advised, for if sown the last of May or even the first week in June it will be past blooming before frost usually comes.

Consistent with the above remarks concerning the purpose for which the Aster is suited, it will be noted that unlike many dealers we do not list the many low growing varieties simply because their flowers are as a rule, useless for cutting. We also do not offer several of the old well-known varieties which, while not by any means without merit, are not as desirable as those we have selected.

21—**Queen of the Market.** A very early and profuse bloomer, of branching habit. 1 ft. Mixed Colors................10c.

22—**Queen of the Earliest.** Resembles the preceding but is considerably earlier. Flowers white only, borne in profusion on long stems. 14 inches..............................10c.

23—**Truffauts Peony Flowered Perfection.** An old, but still popular variety. Plant large but of compact form. Flowers large with incurved petals; very double and of beautiful form. An abundant bloomer. 1½ ft. Mixed Colors..........10c.

24—**Lady in White.** A variety especially desirable for its freedom of blooming and distinct in its foliage. Plant of branching habit, bearing on slender stems semi-globular pure white flowers. From forty to sixty buds are borne on each plant which, developing gradually, prolong the season of bloom..10c.

25—**Jewel or Ball.** A fine new type. Plant, dwarf, but bears freely, on long stems, flowers which are of good size and perfectly round. Mixed Colors...................10c.

26—**Daybreak.** A beautiful Aster. Plant of bushy, branching habit, bearing on long, stiff, upright stems, large double flowers with incurved petals, very regularly placed. Color, a lovely shell-pink; as a cut-flower, not excelled by any other variety..10c.

Giant Branching Comet. A distinct and very valuable class. Flowers resemble the Japanese Chrysanthemum, and differ from those of the older Comet class in that they are not only larger but petals are broader and longer, flower-stems long. Plant of vigorous, luxuriant growth, 1½ ft.
27—Giant White......................................10c.
28—Giant Rose.......................................10c.
29—Mixed Colors.....................................10c.

30—**New Japanese.** A very distinct and desirable class. Flowers very large and peculiarly beautiful, with long tubular and twisted petals. Plant vigorous and productive. Mixed Colors...10c.

Semple's Branching. Of very branching habit and a strong grower; flowers large, often four inches in diameter. Valuable for cutting on account of their long stems; very double, beautiful colors. One of the best late flowering varieties, 1½ to 2 ft.
31—Rose...10c.
32—White..10c.
33—Mixed Colors.....................................10c.

Victoria. One of the most popular varieties. Flowers large, full and double with reflexed petals. Plant large and vigorous and a free bloomer; colors varied and beautiful.
34—White..10c.
35—Scarlet..10c.
36—Blue...10c.
37—Mixed Colors.....................................10c.

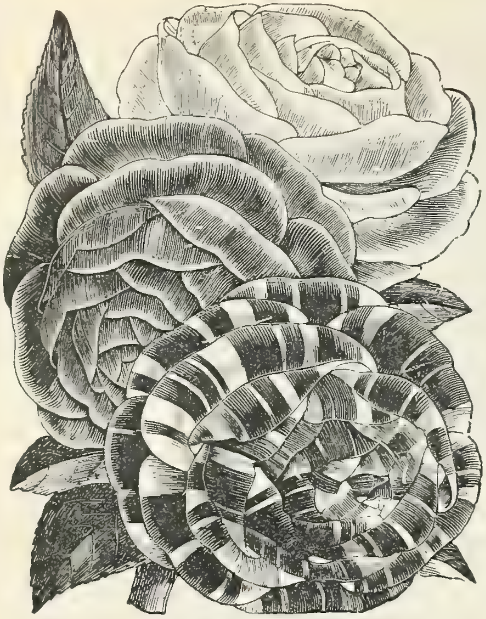
38—**Betteridge's Quilled.** Flowers composed of tube or quill-shaped petals. This is an improved strain, with large, double flowers, and of beautiful colors, 2 ft.
Mixed Colors...5c.

38½—**Prince of Wales.** Plant of free branching habit, bearing on long stems large flowers of a deep crimson red. It is a very early bloomer, a fitting companion to the *Queen of the Earliest*, the color of its flowers making a pleasing contrast to the pure white of that variety.................10c.

39—**Our Worcester Mixture.** Our own mixture of above varieties, carefully mixed, enabling any to secure a choice collection at slight outlay..............................10c.

40—**Good Mixed.** Many varieties.......................5c.

BALSAM ☙ LADY SLIPPER TOUCH-ME-NOT


Improved Double Balsams.

An old favorite garden flower which has been greatly improved in recent years. With favorable conditions and proper treatment but few single flowers are produced. The Camellia flowered varieties are especially fine, and if planted on rich soil and given sufficient room (about two feet apart each way) will produce a great profusion of flowers, nearly all of which will be as double as their name implies. The rose-flowered, also, are strikingly beautiful with their large, perfectly double, rose-like blossoms and great variety of shades and colors. Hardy annual; 1½ to 2 ft.

41—**Double Camellia Flowered.** Mixed colors..........10c.
42—**Double Rose Flowered.** Mixed colors..........10c.
43—**Double Pure White**..........10c.
44—**Double Dark Red**..........10c.
45—**Good Mixed**..........5c.

BACHELOR'S BUTTON ☙ Blue Bottle; or, Corn Flower.

(Centanrea Cyanus.)

A well known and very popular plant, blooming early and continuously until autumn if flowers are not allowed to go to seed. White, blue and pink. Hardy annual; 2 to 3 ft.

46—Single and Double Mixed, Mixed Colors..........5c.

BALLOON VINE ☙ Love in a Puff.

(Cardiospermum Halicacabum.)

47—A tender annual climber of rapid growth, bearing small white flowers, followed by curious inflated seed vessels, somewhat resembling a balloon; 10 to 15 ft..........5c

BRACHYCOME ☙ Swan River Daisy.

A free flowering plant of dwarf compact growth, bearing in great profusion beautiful single blue or white flowers. Effective as edgings or in beds, and suitable for rustic baskets or pot culture. Half hardy annual.

48—Mixed Colors..........5c.

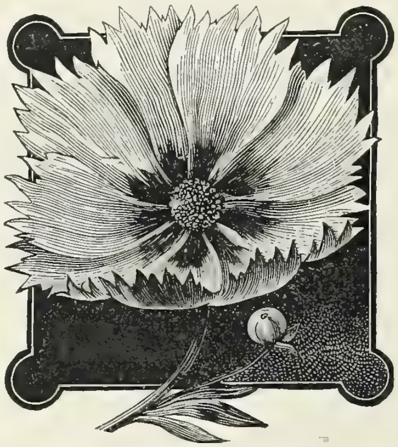
BROWALLIA ☙ Amethyst.

Strikingly beautiful plants and profuse bloomers, succeeding best when started in the house or hot-bed, but can be sown in the open ground. When successfully grown the plants are completely studded with the rich, beautiful blue and white flowers. Half hardy annual.

49—**Roezii.** Blue and white mixed....10c.
50—**Elata.** Mixed..........5c.

CALLIOPSIS

For Perennial Varieties See Coreopsis.


Calliopsis Golden Wave.

One of the most graceful and satisfactory hardy annuals, profuse and continuous bloomer, sometimes called "Bright Eyes." Flowers brilliant yellow, orange, crimson, red and brown, spotted or margined with different shades, and having long stems are excellent for cutting.

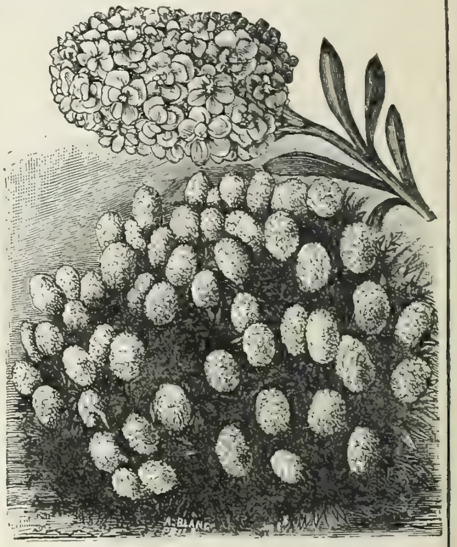
51—Choice Varieties Mixed, 2 ft..........5c.
52—**Golden Wave.** (Drummondi.) Plant distinct from above sorts, of bushy, compact and dwarf habit. Flowers large, often 2 inches across; beautiful golden yellow with small dark center..........5c.

CALENDULA ☙ Pot Marigold.

A free and continuous blooming plant of dwarf, bushy habit; of the easiest culture, growing freely in nearly all soils. Desirable both for garden decoration and pot culture. Hardy annual; 1 ft..........5c.

53—**Meteor.** Light yellow, striped with deep orange; very popular..........5c.
54—**Prince of Orange.** Bright orange, striped with light yellow..........5c.
55—**Trianon, the Royal Marigold.** Very large, sulphur-yellow, striped with deep, rich brown..........5c.
56—**Pongei.** White Marigold..........5c.

CANDYTUFT ☙ IBERIS


Candytuft—White Fragrant.

Well known, popular hardy annual, of easiest culture; useful for bedding, edgings or for cutting.

57—**White Rocket.** (Empress.) Large trusses, 1 ft. ½ oz. 15c., oz. 25c..........5c.
58—**White Fragrant.** 1 ft. ½ oz. 15c., oz. 25c..........5c.
59—**Tom Thumb.** Very dwarf, mixed colors..........5c.
60—**New Carmine.** A distinct shade..........5c.
61—Fine Mixed. ½ oz. 15c., oz. 25c..........5c.
62—**Semper virens.** (Perennial.) A hardy dwarf, early flowering plant, well adapted for rockeries, etc., or for front rows of perennial borders; about ten inches high..........5c.

CARNATION

A beautiful, well-known and extremely popular flower; half hardy perennial; the Marguerite class, however, flowering the first year from seed and in a comparatively short time.

63—**Choice Double Mixed**..10c.

Marguerite. One of the greatest acquisitions to the flowers which the amateur can conveniently grow, enabling all lovers of this beautiful flower to secure very satisfactory and immediate results without the usual care and time necessary to succeed with the Carnation of the older types. Flowers may be had from August until severe frost comes from seed sown in the spring, which have the characteristic form and fragrance of the Carnation proper, borne in greater profusion and on plants of more bushy and vigorous growth. Too much could not be said in praise of this, nor could it be too highly commended for the amateur's use.

64—**Choicest Mixed.** Complete assortment of colors....................10c.

MARGUERITE CARNATIONS **Giants of California.**

An improved, extra large flowered strain from California, of vigorous, robust habit but having the same dwarf compact form of above, blooming also as early and producing larger flowers, many of which are as *fine and more freely produced than those grown by florists in the greenhouse.* A very shy seeder.

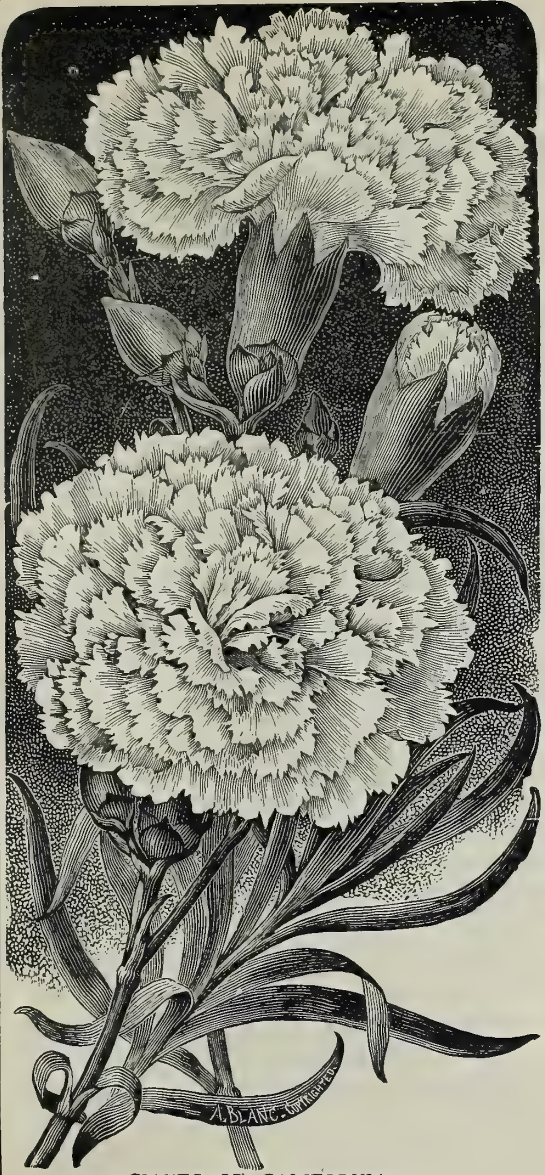
65—**Mixed Colors.** Small pkt..15c.

HARDY GARDEN CARNATIONS **For Open Ground.**

Plants of low, bushy, tufted form, producing on long stems the beautiful fringed flowers with their delightful clove fragrance, known as "Clove Pinks," so highly valued in the "old fashioned garden" and which merit a place in the perennial bed and border of today.

66—**Plumarius Double Mixed.** Double fringed, fragrant flower, white, crimson or purple shades, beautifully shaded and spotted................10c.

67—**Plumarius Single Mixed**..5c.


A. BLANC. COPYRIGHTED.

GIANTS OF CALIFORNIA.

CASTOR BEAN Ricinus

Well known tender annuals; tall, stately, majestic plants of very rapid growth, with palm-like leaves of glossy green, brown or bronze hue; very effective for lawns, planted singly or in groups; 6 to 15 ft;

68—**Borboniensis.** Large showy foliage of purplish hue; 15 ft. ½ oz. 12c., oz. 20c....................................5c.

69—**Cambodgensis.** Stalks and stems nearly black, leaves large, of a deep bronzy maroon; 6 ft. ½ oz. 15c, oz. 25c..5c.

70—**Sanguineus.** (Tricolor.) Stalks blood-red, foliage reddish bronze with scarlet seed pods; 6 ft. ½ oz. 12c., oz. 20c...5c.

71—**Zanzibarensis.** A comparatively new class, with gigantic leaves ranging in color from light green to bronzy maroon; 10 to 15 ft. Mixed varieties. ½ oz. 12c., oz. 20c.........5c.

72—**All Varieties Mixed.** ½ oz. 10c., oz. 15c............5c.

ANNUAL CHRYSANTHEMUMS

FRENCH MARGUERITES OR PAINTED DAISIES.

Free-flowering plants of branching habit, with rich, finely cut and very ornamental dark green foliage, bearing on long stems daisy-like flowers of bright and varied colorings. These colorings on the single varieties are usually in distinct rings and look on the flat petals as though they were painted on. The double varieties withstand the heat of summer, blooming more freely than the single, the latter requiring cooler weather to bloom freely but are much more beautiful than the double. Both grow freely from seed, are of easy culture, very desirable for cutting, and are effective bedding plants. They should be given plenty of room, from two to two and one-half feet, and will bloom more freely on soil of medium fertility. 1 to 1½ ft.

73—**The Sultan.** (Atro-Coccineum.) Large velvety single flowers, crimson maroon with golden ring..............5c.

74—**Eclipse.** Large single flowers, golden yellow with scarlet ring and brown disc..5c.

75—**Single Mixed.** All colors..........................5c.

76—**Corinarium Double Mixed**..........................5c.

CANTERBURY BELL

CAMPANULA MEDIA.

To me there's a tone from the Blue-bell flower
With her blossoms so fresh when the storm is o'er,
As she thanked the sun for his beams the while,—
That flower has taught me to repay
The friends who have cheered my stormy day,
With a grateful bow and a sunny smile.
—Flora's Interpretor.

Beautiful hardy biennial plant, of easy culture, a profuse bloomer, succeeding best in a light, rich soil; bearing flowers of rich and exquisite colorings. Like most biennials, it can be sown after mid-summer where it is to remain, or in the spring for transplanting. Plants should stand about two feet apart. 2½ ft.

77—**Double.** Mixed colors............................5c.

78—**Single.** Mixed colors............................5c.

CUP AND SAUCER CANTERBURY BELL.

(Companula Calycanthema.)

Flowers of this class are of peculiar form and strikingly beautiful, that part resembling a cup is about three inches in length or depth and the saucer from three to four inches in diameter. This plant is a very free bloomer, often bearing during its season of several weeks in early summer a hundred or more of its exquisite blossoms, and is, when in full bloom, a pyramid of beauty.

79—**Mixed Colors**..................................5c.

CANARY BIRD FLOWER ✤ Tropaeolum Peregrinum.

80—A favorite half hardy annual climber of rapid growth, bearing curiously formed yellow flowers having a fancied resemblance to a canary bird; blooms from July until frost; 10 to 15 ft..5c.

CLARKIA.

Favorite hardy annuals, bearing beautiful, delicate, rose-colored, purple and white flowers; profuse bloomers; of easiest culture; 1½ ft.

81—**Mixed Colors**..................................5c.

COBEA.

82—**Scandens.** A rapid growing perennial climber, flowering the first year from seed, bearing flowers which are at first green, changing soon to deep violet or purple. It should not be sown in open ground until soil has become quite warm, and will germinate most readily if seed is pushed into soil edgewise and barely covered; 20 to 30 ft............10c.

COCKSCOMB ✤ Celosia Cristata.

Popular annuals, producing flowers which somewhat resemble a cock's comb; of various colors, rose or crimson the most striking; of easy culture.

83—**Glasgow Prize.** Immense crimson combs; 1 ft.......5c.

84—**Mixed Colors**..5c.

COCKSCOMB FEATHERED ✤ Celosia Plumosa.

Of branching habit, producing large, graceful, plume-like flowers; beautiful and effective; 2 to 3 ft.

85—**Ostrich Plume.** Crimson..........................5c.

86—**Ostrich Plume.** Golden..........................5c.

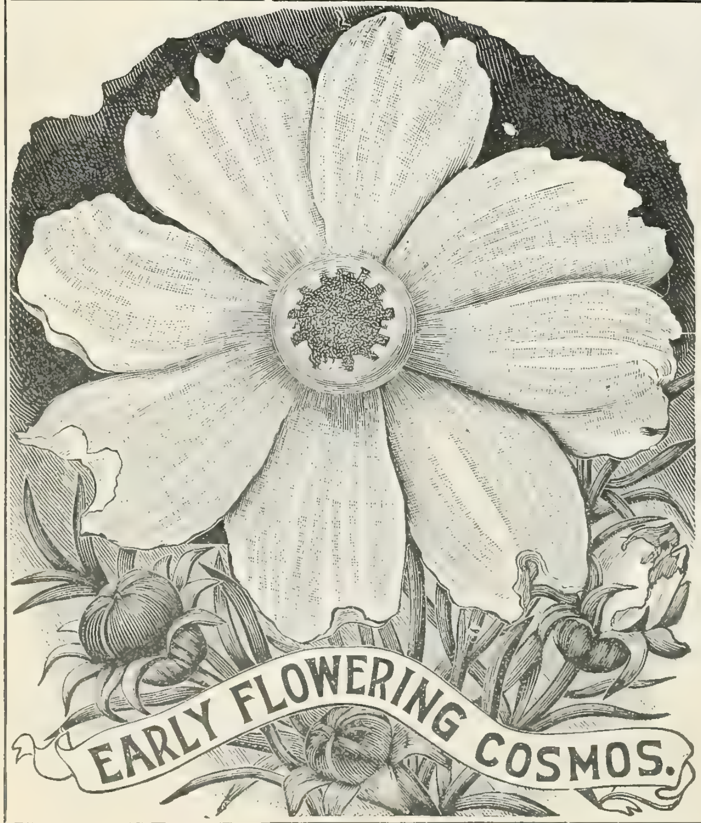
87—**Mixed Colors.** Crimson, orange, yellow, rose, etc....5c.

Columbine. (See Aquilegia.)

Convolvulus. (See Morning Glory.)

COREOPSIS ✤ For Annual Varieties See Calliopsis.

88—**Lanceolata.** A beautiful hardy perennial, flowering the first year from seed sown early; forming large clumps, growing from two three feet high, bearing on long stems large rich, yellow flowers in great profusion; very desirable for cutting; of the easiest culture, growing anywhere, and should be in every flower garden..............................5c.


EARLY FLOWERING COSMOS.

COSMOS

A rapid growing, graceful plant, with beautiful feathery foliage, bearing flowers which resemble the Single Dahlia; a very hardy annual of strong, vigorous habit, growing about five feet high in ordinary soil, and often eight feet in very rich. It is seldom given room enough; plants should stand not closer than two and one-half feet apart, and in rich soil a greater distance. The Cosmos makes a most desirable background for many other plants, its beautiful, finely cut foliage alone making it well worth the growing for this purpose; its value, however, is greatly increased by its lovely flowers, white, pink, crimson or rosy purple, borne in great profusion on long stems, rising above the foliage in an especially graceful manner, equally graceful in appearance when arranged in a vase with sufficient foliage; for this purpose but few other flowers are as desirable and none can be had so late in the season, as, owing to the great hardiness of the plant, it bears fine flowers even after the first light frosts have come.

89—**Mammoth Perfection.** Flowers of mammoth size, rather late in flowering and, as the plant is quite hardy, seed should be planted as early as possible and will then, in most seasons, produce a profusion of flowers before frost......................5c

90—**New Early Flowering.** This, while flowers are not as large as those of the Mammoth, is growing in favor because of its earliness. If seed is sown in open ground in early spring, plants will begin to bloom the last of July and continue until November, making it, therefore, especially desirable in northern latitudes..5c.

CYPRESS VINE ✤ Ipomoea Quamoclit.

A very popular climber, with delicate, feathery foliage, bearing small, star-shaped rose, scarlet and white flowers, presenting a very pleasing contrast with the beautiful dark-green foliage. Tender annual; 12 to 15 ft.

91—**Mixed Colors**..................................5c.

DAISY ✤ Bellis Perennis.

A hardy perennial plant, of dwarf, compact growth, blooming freely during the cool months of spring and fall; flowers very double, about one inch in diameter, borne singly on a stem about five inches high. A beautiful little plant well adapted for edgings, and should be more generally cultivated. It bears transplanting well, even when in flower, and thrives best on richly manured soil and in a cool, partially shaded location.

92—**Mixed Colors**..................................10c.

Dianthus. (See Pink.)

Digitalis. (See Foxglove.)

DATURA.

93—Strong, vigorous plants, of branching habit, bearing large trumpet-shaped flowers six to eight inches long and very fragrant. Tender annuals; 3 ft. **Finest Mixed**........5c.

DUTCHMAN'S PIPE ✤ Aristolochia Sipho.

94—A beautiful, rapid growing climber, bearing curiously formed, purplish brown flowers, thought to resemble in shape a pipe. Hardy perennial; 15 to 30 ft..............5c.

ESCHSCHOLTZIA ✤ California Poppy.

Very showy hardy annual, with beautiful, delicately cut foliage, bearing bright yellow and scarlet flowers; one of our most attractive annual plants, blooming early and continuously. Succeeds best in light, rich soil, and should be sown where designed to grow, as it does not bear transplanting; 1 ft.

95—**Mixed Colors**..................................5c.

96—**Douglasii.** Plant very dwarf and compact, only six inches high; blooms very early, profusely, and when quite small; flowers small, clear lemon-yellow. Excellent for bedding or edgings..................................5c.

97—**Mandarin.** Bright scarlet, interior orange..................................5c.

EUPHORBIA VARIEGATA ✤ Snow-on-the-Mountain.

98—A showy, hardy annual plant, grown for its striking foliage. Leaves, dark green, veined and margined with white. Very effective in the garden or on the lawn......5c.

EUPHORBIA HETEROPHYLLA ✤ Mexican Fire Plant, or Annual Poinsetta.

99—This is somewhat similar to the brilliant Poinsetta, grown in pots in the greenhouse during winter and which is a very popular decorative plant. This, however, can be easily grown from seed in the open ground, which should be sown when trees are starting into leaf. It produces large bracts of fiery scarlet which, in contrast with the dark green foliage, make a striking and effective appearance..................................10c.

FORGET-ME-NOT ✤ Myosotis.

An old, well-known and favorite garden plant; hardy perennial, flowering the first year from seed sown early in the spring, succeeding best in cool, moist soil and thriving well in partial shade.

100—**Alpestris.** Plant dwarf and compact, about six inches in height; flowers star-shaped, blue..................................5c.

101—**Alpestris Alba.** Similar in habit of growth, but the florets are pure white......5c.

FOUR O'CLOCK ✤ Marvel of Peru. (Mirabilis.)

A well-known and favorite plant, bearing freely funnel-shaped white, red and striped flowers, which open about four o'clock in the afternoon and perish before noon the next day; of easy culture, will grow anywhere, but should be given plenty of room—at least three feet each way.

102—**Mixed Colors**..................................5c.

FOXGLOVE ✤ Digitalis.

Favorite perennial plants, of easy culture. Flowers borne on long spikes; 3 to 5 ft.

103—**Mixed Colors**..................................5c.

GALLIARDIA ✤ Blanket Flower.

A very free-flowering class of plants, entirely hardy, blooming the entire summer, of easiest culture and succeeding well in the poorest soils. Flowers brilliant and beautiful, 2 to 3 inches in diameter, borne singly on long stems; exceptionally fine for cutting.

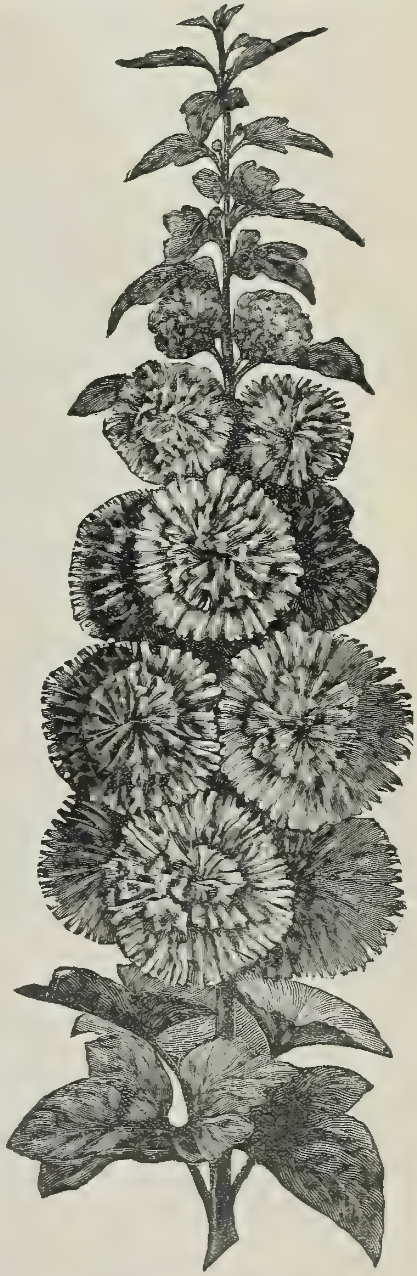
104—**Choice Mixed.** Comprising a wide range of colors in both single and double varieties; hardy annuals, some of which become perennial by protection of the roots in winter. 1 to 2 ft..................................5c.

105—**Picta Lorenziana.** (Double.) Large, round heads composed of many individual florets, richly colored in shades of bronze, brown, maroon, etc., brightly tipped with shades of yellow and creamy white; hardy annual. Mixed colors..................5c.

GODETIA.

Attractive hardy annuals of compact growth, bearing profusely large flowers beautifully colored; fine bedding plants of easy culture; 1 to 1½ ft.

106—**Mixed Colors**..................................5c.



Allegheny Hollyhock.

GOURDS.

Ornamental, tender annual climbers, bearing curiously formed and colored fruit. Of very rapid growth; useful for covering fences, stumps, etc.; 10 to 20 ft. 107—**All Varieties Mixed**..................................5c.

Gypsophila

Delicate, profuse flowering plants of easy culture. Hardy annuals and perennials.

108—**Muralis.** A beautiful little annual plant, with fine, feathery, grayish-blue foliage and very small, pink flowers. Grows only about six inches high, and because of that and the distinctive color of its foliage it is excellent and effective for edgings.. 5c.

109—**Elegans.** Hardy annual, about one foot in height, sprays well branched and thickly set with small, white flowers.. 5c.

110—**Paniculata.** (Commonly known as Baby's Breath.) Hardy perennial, bearing white flowers; of more branching habit and sprays are longer stemmed than the preceding; very desirable for combining with other flowers in bouquets or vases, especially Sweet Peas; and in our opinion is the only flower or foliage at all suitable for combining with those delicate, lovely flowers.. 5c.

HELIOTROPE.

A favorite perennial plant, highly prized for its delicious fragrance. We think it is not generally known that it can be had in bloom the first season from seed: but fine flowering plants can be easily grown from seed sown in the house in March. Soil should be light and rich, and young plants kept in a warm, sunny location. Sow seed in shallow boxes and transplant before plants become crowded into small pots. If desired for bedding, wait until nights are warm. Make the soil rich and give it an abundance of water.

111—**Mixed Colors**.. 5c.

HELICHRYSUM ✤ Or Everlasting Flower.

Free-blooming, hardy annual plant, of easy culture. The flowers are large, full and double, of various colors, white, scarlet, yellow, etc., and are often used when dry for winter bouquets.

112—**Mixed Colors**.. 5c.

HOLLYHOCK ✤ "Queen Hollyhock, with Butterflies for Crowns."

This well-known plant has always been a great favorite, and is perhaps today more popular than ever. Stately and majestic in its growth, it is especially suited for a background to the perennial border. Although a biennial it becomes perennial by proper treatment, continuing to grow and bloom for several years if the flower spike is cut off as soon as through blooming. Seed may be sown at any time from spring until midsummer and will produce plants which will bloom the following season. The soil should be light, and rich, and well drained.

113—**Chater's Choicest Double Mixed.** This well-known, superb strain will produce a large percentage of double flowers in a wide range of colors, and has, as yet, not been surpassed.. 10c.

114—**Allegheny.** (New.) The flowers are not as double as those of the older form, but are distinctly beautiful. They differ both in form and in the manner in which they are disposed on the stem; every bud to the top of the plant develops, making the blooming season a long one. They are enormous in size, often six inches in diameter, of silky texture and beautifully fringed and colored........ 10c.

HYACINTH BEAN ✤ Dolichos Lablab.

115—**Mixed.** A tender annual climbing plant, with purple or white flowers, which are followed by very ornamental seed pods. 10 to 15 ft.. 5c.

ICE PLANT. ✤ (Mesembryanthemum.)

116—A trailing plant, with succulent stems and leaves, which have the appearance of being covered with ice crystals; excellent for hanging baskets and rock work. Tender annual. ¾ ft.. 5c.

IPOMEA.

Rapid growing, annual climbing vines, with very luxuriant foliage, producing an abundance of showy flowers, white, pink, blue and purple. While both the flowers and foliage closely resemble that of the Morning Glory of most varieties, both are larger, although the flower of one of the following (Coccinea) is smaller and of different form, more nearly resembling that of the Cypress Vine. All should be more generally cultivated. 10 to 20 ft.

117—**Bona Nox.** (Evening Glory.) Beautiful, large, violet-blue flowers, which open in the evening.. 5c.

118—**Coccinea.** (Star Ipomea.) Plant similar to the Morning Glory; flowers small, star-shaped and produced in great profusion.. 5c.

119—**Grandiflora, Striped-Leaved.** The leaves of this are dark green, mottled with white; the flowers intense ultra-marine blue, edged with sky-blue and shaded with carmine pink in the throat.. 5c.

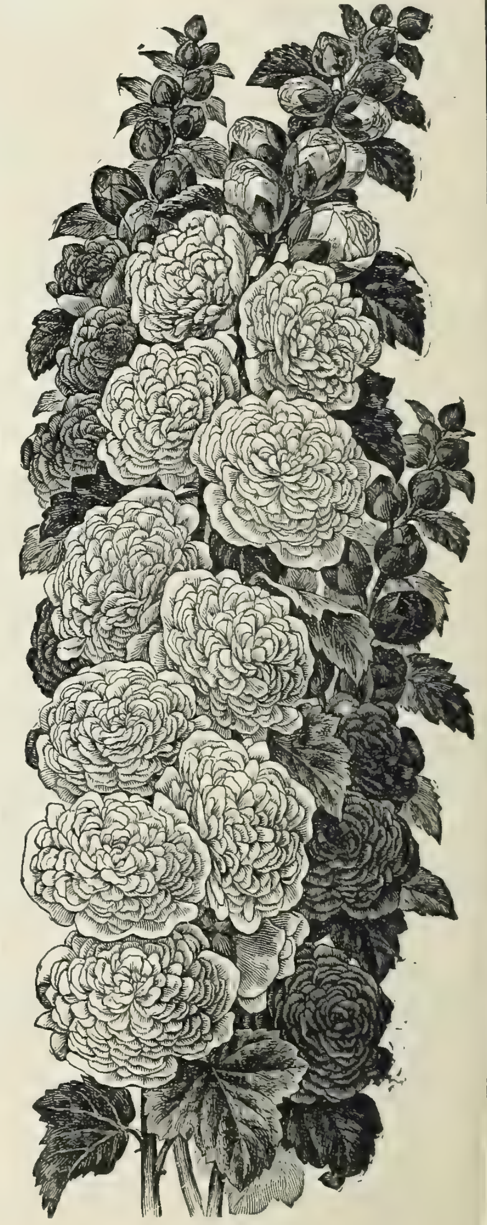
120—**Setosa.** A beautiful variety, of very luxuriant growth. The leaves are from eight to twelve inches across, the under sides being thickly set with small, reddish hairs, as is also the vine. The flowers are about three inches in diameter, produced in clusters, but one or two in each cluster opening at once; of a lovely satiny pink.. 5c.

121—**Choice Mixed.** Above and other varieties.. 5c.

LANTANA.

Favorite, rapid growing plants, forming small shrubs; profuse and constant bloomers, well adapted for pot culture, and are very effective planted singly in the garden. Tender perennials, flowering first year from seed if sown early; 1 to 3 ft.

122—**Mixed Colors**.. 5c.



Improved Double Hollyhock.

LARKSPUR

DELPHINIUM

Popular annual, biennial and perennial plants, with finely cut leaves and beautiful flowers, which are either white, scarlet, pink, blue or purple, but never yellow; of easy culture, succeeding best in a location open to the sun.

123—**Double Dwarf Rocket**. Hardy annual; 1 ft.; mixed colors......................5c.

124—**Double Tall Rocket**. Hardy annual; 2½ ft.; mixed colors..5c.

125—**Elatum.** (Bee Larkspur.) Hardy perennial; flowers have curiously folded, hairy petals in the center, giving them a fancied resemblance to a bee. Intense blue, plant five feet high......................5c.

126—**New Compact Blue.** Hardy perennial, flowering freely the first year from seed, if sown early. Rich flowers, large, dark blue. Plant about one foot high, growing a little taller the second year, and blooming even more profusely..................10c.

127—**LAVENDER.** Hardy perennial plant, bearing long spikes of blue flowers; chiefly grown on account of its delicious fragrance, which the plant, when dried, retains for years..............5c.

128—**LINUM.** (Scarlet Flax.) A very showy and beautiful hardy annual, bearing profusely bright, scarlet flowers; 1 ft..........5c.

THE MISSION OF FLOWERS.

Violet, why are your eyes of blue
Wet with tears of the morning dew?
Rosebud, why do you blush and start,
And hide the crystal gem at your heart?
Lily, what are you doing there,
With your bells a-swing in the balmy air?

A light breeze born of the morning hours
Softly stole o'er the banks of flowers;
And, list'ning closely, I seemed to hear,
Chimed in silvery voices clear—

"We are blessing the earth with our wealth of bloom;
We are lading the air with a rare perfume;
All things have their mission, and God gives us ours,
And this is a part of the mission of flowers:
To give life to the weary and hope to the sad,
Fresh faith to the faithless, new joys to the glad;
To cheer the desponding, give strength to the weak;
To bring health's bright bloom to the invalid's cheek;
To blush on the brow of the beautiful bride;
To cheer homes of mourning where sorrows betide;
To rob dreaded Death of a part of his gloom,
By decking the dear one arrayed for the tomb;
To furnish the home with a lasting delight,
With our perfumes so lovely, our blossoms so bright;
To hallow the homestead, embellish the lawn,
Reflecting the tints of the roseate dawn.
In low, voiceless language, we're striving to tell
How God, in His wisdom, doth everything well."

—*Dart Fairthorne.*

LOBELIA.

Pretty, graceful, little plants; those of trailing habit being used for hanging pots and rockeries, and those of dwarf, compact habit for edgings and bedding.

129—**Gracilis.** Light blue, slender trailer, half hardy annual; ½ ft..5c.

130—**Crystal Palace, Compacta.** Of dwarf, compact growth, excellent for edgings; blue. Half hardy annual; ½ ft.....5c.

131—**White Gem.** Plant of similar habit to the preceding variety; flowers pure white..............................5c.

132—**Cardinalis.** (Cardinal Flower.) This is a native species, of greatly different habit from the others, growing about two feet high. Though usually found when growing wild in moist places, it succeeds well in the common border and is one of the best perennials for the shady side of the house. Its spikes of intensely brilliant, cardinal red flowers make it one of the most effective plants........................10c.

LOVE-IN-A-MIST ✤ Nigella Damascena.

A favorite annual, bearing blue and white flowers half hidden by the fine, feathery foliage. Known also as Lady-in-the-Green and Devil-in-the-Bush; 1 ft.

133—**Mixed**..5c.

LUPIN.

Very showy plant, bearing spikes of pea-shaped blossoms of rich and varied colors; a free bloomer and easily grown. Hardy annual; 1½ to 3 ft.

134—**Mixed Colors**....................................5c.

LYCHNIS ✤ London Pride—Burning Star.

Hardy perennials, some of which will flower the first year from seed, and but few plants produce more brilliant blossoms. The plant blooms freely and continuously, bearing its clusters of scarlet flowers through the entire summer.

135—**Chalcedonica.** (London Pride.) Bright scarlet; 2 ft...5c.

136—**Haageana.** Bright scarlet flowers, larger than those of the preceding. Plant about one foot high and will bloom the first year..10c.

MIGNONETTE

Resada odorato

A well-known and popular hardy annual, highly prized for its delightful fragrance. While blooming freely at all times, much larger and finer spikes are produced during the cool, moist weather of early spring and late fall. Seed sown in autumn will bloom in early spring, and when sown the last of July will come into flower in a few weeks and continue until cut down by frost.

137—**Sweet Mignonette.** Large flowered; ½ oz. 10c., oz. 15c...5c.

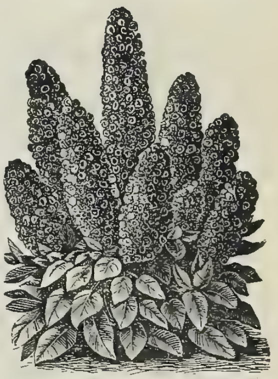
138—**Parson's White.** Nearly white; fragrant...............5c.

139—**Golden Queen.** Flowers golden yellow. Growth dwarf but dense.........................5c.

140—**New Quaker City.** Flowers a handsome gold red, rich and fragrant; foliage very dark....5c.

141—**New Giant Flowered Red.** Form pyramidal, quite distinct, very striking and handsome...5c.

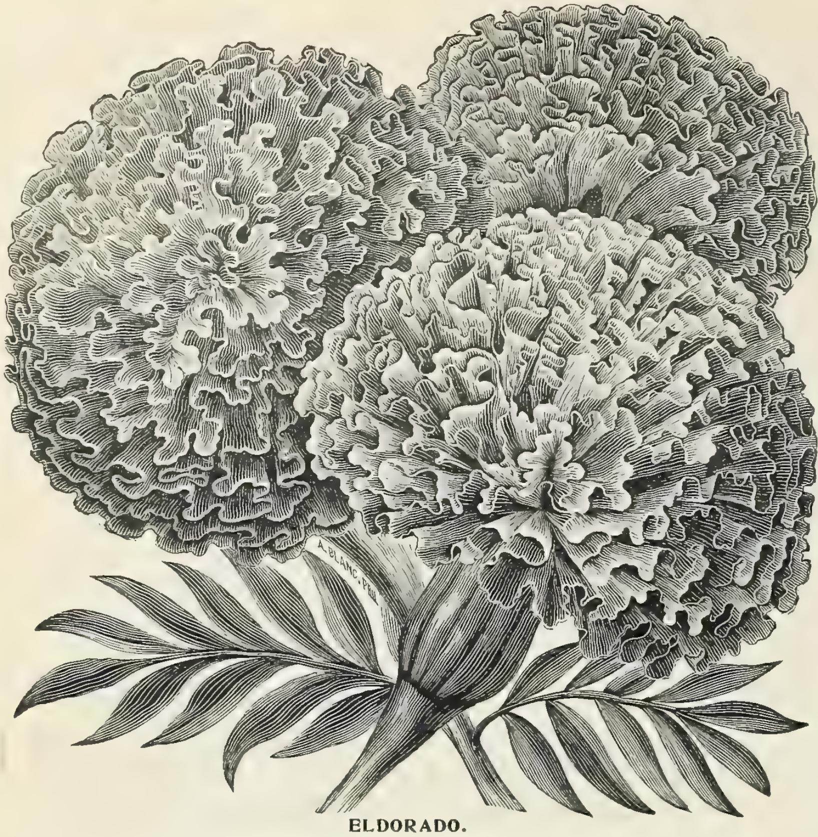
142—**Choice Mixed.** Our own mixture of the above and other varieties. ½ oz. 15c., oz. 25c...5c.



DWARF Morning Glory CONVOLVULUS MINOR.

Plant of trailing, branching habit, growing about one foot high and in diameter about two feet, and bearing in great abundance small, bell-shaped flowers similar to the tall varieties. These remain open much later in the day than do those of the tall sorts, often in clear weather till evening. Half hardy annual.

143—**Mixed Colors**...5c.



ELDORADO.

MARIGOLD

> Open afresh your round of starry folds,
> Ye ardent Marigolds!
> Dry up the moisture of your golden lids,
> For great Apollo bids
> That in these days your praises shall be sung
> On many harps, which he has lately strung.
> —KEATS.

Well-known plants, blooming freely and constantly. The African varieties are usually tall, the French more dwarf. Both are great favorites. Hardy annuals. 1 to 3 feet.

144—**African Double.** Mixed..................5c.

145—**African, Eldorado.** Flowers very large and extremely double; quilled like a Dahlia; various shades of yellow and orange. 3 ft...........5c.

146—**French Double.** Mixed..................5c.

147—**French Double Dwarf, Gold Striped.** Golden yellow striped with velvety brown...........5c.

148—**French Legion of Honor.** A beautiful single variety of dwarf and bushy habit, rich golden yellow, with garnet blotch in center of petal. 1 ft...5c.

MOON FLOWER. 148½. A rapid growing climber, often attaining a height of 30 feet in a season. Especially adapted to shading porches, etc. To secure flowers in northern latitudes seed should be started early in the house and then be planted out in rather poor soil, else it will run too much to vine. The thick outer shell of the seed should be cut through or a portion chipped off to assist germination....10c.

Morning Glory ~ Convolvulus Major. . . . .

> Flowers, shrinking from the chilly night,
> Droop and shut up; but with fair morning's touch
> Rise on their stems, all open and upright.
> —MONTAGUE.

149—**Mixed.** All colors. ½ oz. 10c., oz. 15c............................5c.

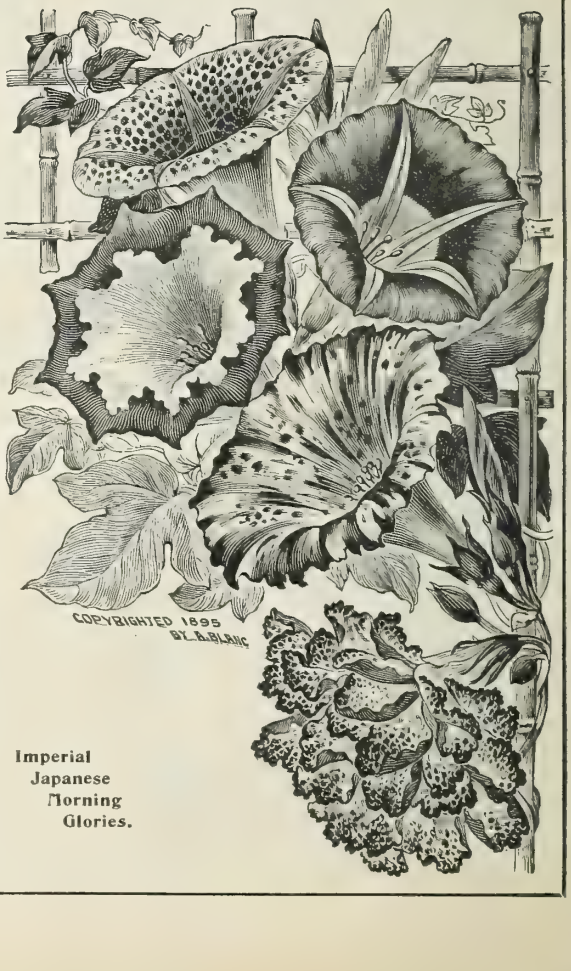
150—**Double White Tassel.** A new, very distinct and beautiful variety. The plant is of rapid growth, blooms early and as profusely as the common Morning Glory. The flowers are double and of snowy whiteness. The seed we offer will produce a much larger proportion of double flowers than any seed of double varieties yet imported from Japan....................10c.

Imperial Japanese Morning Glory.

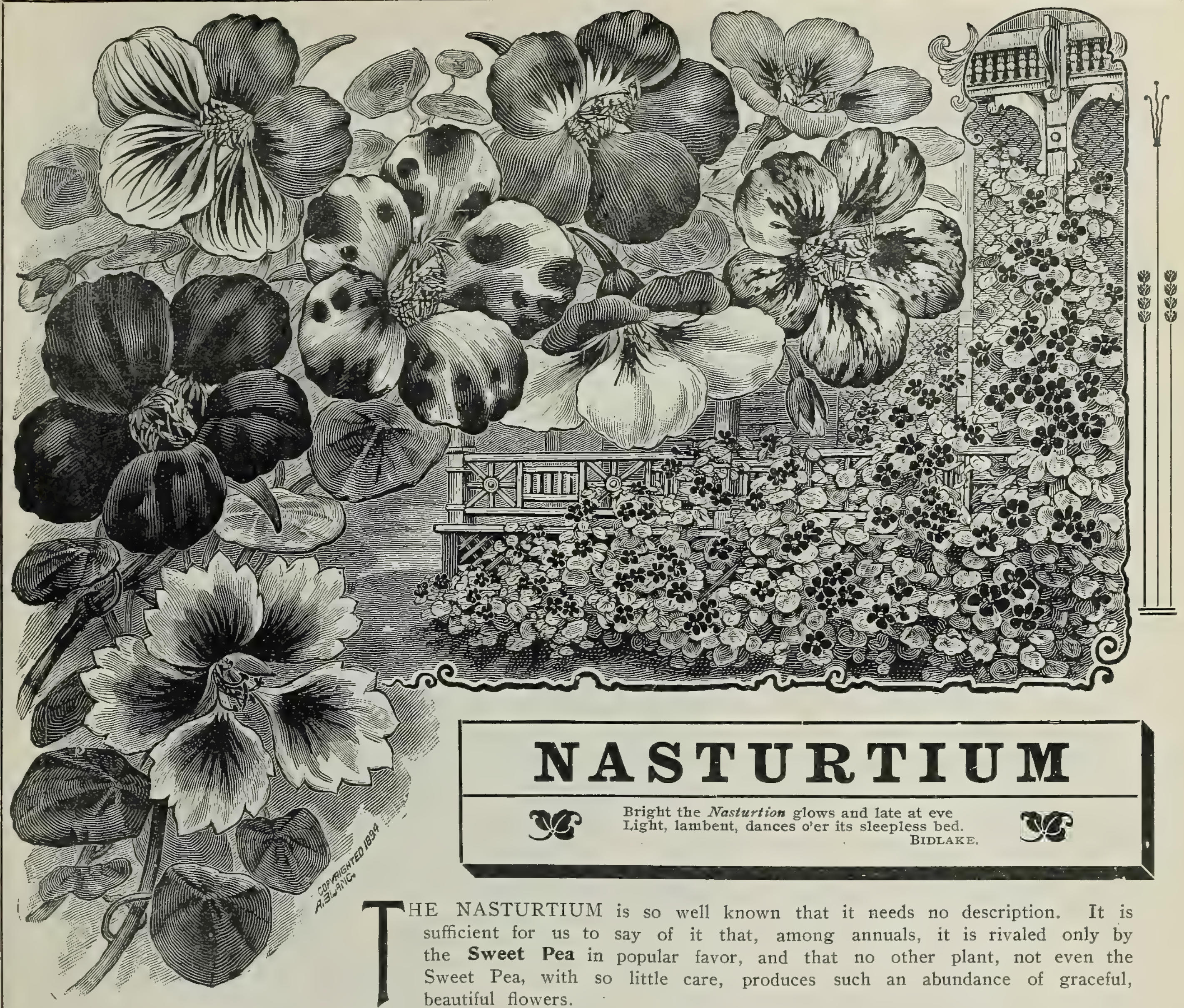
Every Season Increases the Popularity of this Beautiful Flower.

Among the many wonderful novelties in the floral line introduced into this country from Japan, there is perhaps nothing which better attests the great skill of the Japanese florist or gardener than this superb strain of Morning Glory. Not only are the flowers of an almost endless variety of coloring, but the foliage, as well, is greatly varied and very attractive. The flowers are much larger than those of the old strain and fully as freely produced. Some are brilliant red and some clear blue; others are equal in brilliancy, margined or bordered with clear white. Some are striped or blotched with red or blue on white or yellow ground, and others clouded with blue and red. In fact the many variations are almost indescribable, and one may expect to find each morning some new combinations of colorings. The large leaves are of varied form; some are plain green and some green mottled with white, while others are yellow or yellowish-green. So beautiful and effective is this plant and so simple is its culture that it would seem that none who once learned its merit could possibly fail to cultivate it.

151—**Choicest Mixed.** Comprising seed from several noted growers, both American and foreign, insuring *the greatest possible diversity* in color of flowers and of foliage. ½ oz. 15c., oz. 25c..............................5c.



Imperial Japanese Morning Glories.



NASTURTIUM

> Bright the *Nasturtion* glows and late at eve
> Light, lambent, dances o'er its sleepless bed.
> BIDLAKE.

THE NASTURTIUM is so well known that it needs no description. It is sufficient for us to say of it that, among annuals, it is rivaled only by the **Sweet Pea** in popular favor, and that no other plant, not even the Sweet Pea, with so little care, produces such an abundance of graceful, beautiful flowers.

TALL NASTURTIUM ☙ Tropaeolum Majus.

152—**Atropurpureum.** Rich, dark crimson. Oz. 15c....5c.

153—**Dunnett's Orange.** Bright orange, blotched red. Oz. 15c....5c.

154—**Edward Otto.** Light brown with yellow calyx and spur. Oz. 15c....5c.

155—**Golden Leaved Scarlet.** Deep scarlet, with light yellow foliage. Oz. 20c....5c.

156—**Heinmanni.** Chocolate Brown. Oz. 20c....5c.

157—**Luteum.** Clear light yellow; large. Oz. 20c....5c.

158—**Pearl.** Very pale yellow, nearest approach to white. Oz. 20c....5c.

159—**Prince Henry.** Yellow, marbled scarlet. Oz. 15c....5c.

160—**Regelianum.** Deep purple violet. Oz. 15c....5c.

161—**Scarlet.** Very intense scarlet. Oz. 15c....5c.

THREE GIANT-FLOWERED TALL VARIETIES.

162—**Sunlight.** This beautiful variety is of strong, vigorous growth and blooms profusely. The flowers are of the largest size, often nearly *three inches across;* a clear golden yellow. The petals are large, of rounded form, daintily crinkled. The two upper ones have fine, brown lines at the base; the three lower are more distinctly bearded or fringed at the throat than other varieties.

163—**Moonlight.** This is nearly the counterpart of the "Sunlight," differing only in color, which is a lovely pale yellow or straw color. It is equal in size and has the same crinkly or crepe-like petals. It is a worthy companion of the preceding rather than a rival, and when grown side by side both show how aptly they are named.

164—**Salmon Queen.** A beautiful variety, with dark green foliage, bearing flowers of the largest size and beautifully colored. Of a rich but soft, velvety shade of salmon, the two upper petals heavily veined with crimson in the throat. A fitting companion to Sunlight and Moonlight, and a variety with which none can but be pleased.

Each variety, pkt. 5c., oz. 15c., ¼ lb. 40c.

NASTURTIUM--Continued.

LOBB'S Tall Nasturtium; (Tropæolum Lobbianum.)

This class differs from the common or *Majus* in being of a more free flowering habit and in the greater brillancy of its flowers. Both foliage and flowers are slightly smaller and it is not as rank in growth as the common. The greater profusion of bloom and brilliancy of color makes it the more desirable to many.

165—**Cardinal.** Cardinal red; purplish-green foliage.

166—**Crown Prince of Prussia.** Rich brownish-crimson with veinings of a deeper shade.

167—**Crystal Palace.** Bright orange-yellow with bronzy-crimson markings at base of each petal.

168—**Giant of Battles.** Sulphur-yellow with carmine markings.

169—**King of the Blacks.** Very dark red, foliage dark green.

170—**Lucifer.** Deep crimson-red, dark foliage.

171—**Mercier Lacombe.** Purplish-violet.

172—**Queen Victoria.** Rich orange-scarlet.

173—**Spitfire.** Brightest scarlet; very free bloomer.

Each variety, pkt. 5c., oz. 15c., 2 oz. 25c., ¼ lb. 40c.

174—**Lobbianum Choicest Mixed.** A mixture of above and other varieties. Pkt. 5c., oz. 10c., ¼ lb. 30c.

TALL NASTURTIUM.

175—**Hybrids of Madame Gunter.** A beautiful strain, having a wide range of distinct colorings, salmon tints striped and blotched with different shades of red predominating, but embracing pink, rose, crimson, maroon, purple, light yellow and orange in self-colors as well as striped and blotched. For richness and variety of colorings this class is not surpassed by any other nor does any other bloom more freely. Pkt. 5c., oz. 15c., ¼ lb. 40c.

176—**New French Chameleon.** A wonderful new variety, having the peculiar property of producing flowers of *many distinct colorings upon the same plant.* The flowers are not only of different colors but are variously blotched, striped and bordered with contrasting shades. On the same plant appear at once clear self-colored flowers, others stained or flushed on a clear ground, and still others edged or banded with lighter or darker shades. Pkt. 5c., oz. 15c., ¼ lb. 40c.

Tall Nasturtium MIXTURES.

177—**Tall Mixed, all Colors.** A choice mixture, of which we have sold in the past few years large quantities. It comprises many distinct colorings and is fully equal to most of the mixtures generally offered. Being, however, mostly grown in mixture, it is not guaranteed to contain all of the most desirable varieties, but will, nevertheless, afford an effective display, surpassed only by the Worcester Tall Mixed. Pkt. 5c., oz. 10c., ¼ lb. 25c., lb. 90c.

178—**Worcester Tall Mixed.** In this mixture we have one which cannot be surpassed. It embraces many named varieties, including such as the *Giant-Flowered Sunlight, Moonlight and Salmon Queen, The Hybrids of Madame Gunter, New French Chameleon,* and all of the best of the *Majus* and *Lobbianum* classes. This mixture is made by ourselves and we therefore know *just what it is,* and can confidently recommend it as the *best that can be made.* Pkt. 5c., oz. 15c., 2 oz. 25c., ¼ lb. 40c., lb. $1.25.

Nasturtium ❧ DWARF, OR TOM THUMB.

This class blooms as freely as the Tall, and, being as well-known, requires no description or commendation. The following list of varieties comprises all of the best and most distinct. *A package of Nasturtium contains from thirty to forty seeds.*

179—**Aurora.** Bright chrome-yellow, veined with carmine.

180—**Beauty.** Orange, with bright scarlet markings.

181—**Brilliant Yellow.** Clear, bright, glossy yellow. A beautiful variety. Pkt. 10c., oz. 25c.

182—**Bronze Colored.** A very distinct and peculiar shade.

183—**Cloth of Gold.** Brilliant scarlet. Foliage golden yellow, distinct and pleasing; excellent for edge of bed of Nasturtiums, or foliage plants, or for combining with dark leaved varieties like *Empress of India, King Theodore, etc.*

184—**Cœruleum Roseum.** Bright cherry-red. A distinct shade.

185—**Crystal Palace Gem.** Rich sulphur-yellow, spotted with carmine.

186—**Empress of India.** Dark rich scarlet. Foliage bronzy purplish-green. Plant dwarf and compact; fine for edgings.

187—**General Jacqueminot.** Crimson scarlet, like *Jack Roses.* Foliage beautiful, dark green.

188—**Golden King.** Rich orange. Dark purplish foliage.

189—**King Theodore.** Rich velvety crimson. Dark foliage. Very desirable.

190—**King of Tom Thumbs.** Brilliant orange-scarlet. Foliage dark green.

191—**Pearl.** Pale primrose, often described as white.

192—**Prince Henry.** Pale yellow, heavily suffused with rose. A distinct and desirable variety.

193—**Rose.** Bright rose. A small flowered but charming variety.

All varieties at uniform prices except where noted.
Pkt. 5c., oz. 15c., 2 oz. 25c., ¼ lb. 40c.

NASTURTIUM--Continued.

DWARF Nasturtium.

194—**New French Chameleon.** This is identical with the *New Tall Chameleon* in the feature of producing flowers of greatly diversified colorings and markings on the same plant, the plant, however, being of the true dwarf type, and is perhaps even more striking than the *Tall Chameleon.* A pleasing novelty, which all growers of the Nasturtium should try. Pkt. 5c., oz. 15c., 2 oz. 25c., ¼ lb. 40c.

195—**Liliput.** A new, distinct and charming strain, of very dwarf, compact habit, which originated from the tall *Tropœolum Lobbianum.* It has the same desirable features of great brilliancy of coloring and free-flowering habit. The plant is smaller than the common strain of *Dwarf Nasturtium,* as are the light green leaves. The flowers also are smaller, but so profusely borne that they appear above the foliage in clusters and embrace many new and beautiful colorings. Very desirable for edgings. Pkt. 5c., oz. 15c., 2 oz. 25c., ¼ lb. 40c.

Dwarf Nasturtium MIXTURES.

TWO—One Good, the other Better.

196—**Dwarf Mixed, all colors.** For so many years have we sold this mixture that we unhesitatingly say it is a *good* one, despite the fact that we offer another—a better one—which we advise planting in preference to this. Although this, like the *Tall Mixed* is largely grown in mixture, it, like that, embraces a wide range of colors and, also like that, has given great satisfaction to our many customers who have used it. Pkt. 5c., oz. 10c., ¼ lb. 25c., lb. 90c.

197—**Worcester Dwarf Mixed.** In addition to all of the preceding named sorts, including the new *Chameleon,* we have selected other choice varieties of the large flowered type, all of which combined make a mixture which for pleasing variations cannot be surpassed. We advise its use in preference to the regular mixture, believing that the wider range of color will much more than offset the slight difference in price. Pkt. 5c., oz. 15c., 2 oz. 25c., ¼ lb. 40c., lb. $1.25.

Collections of Nasturtiums.

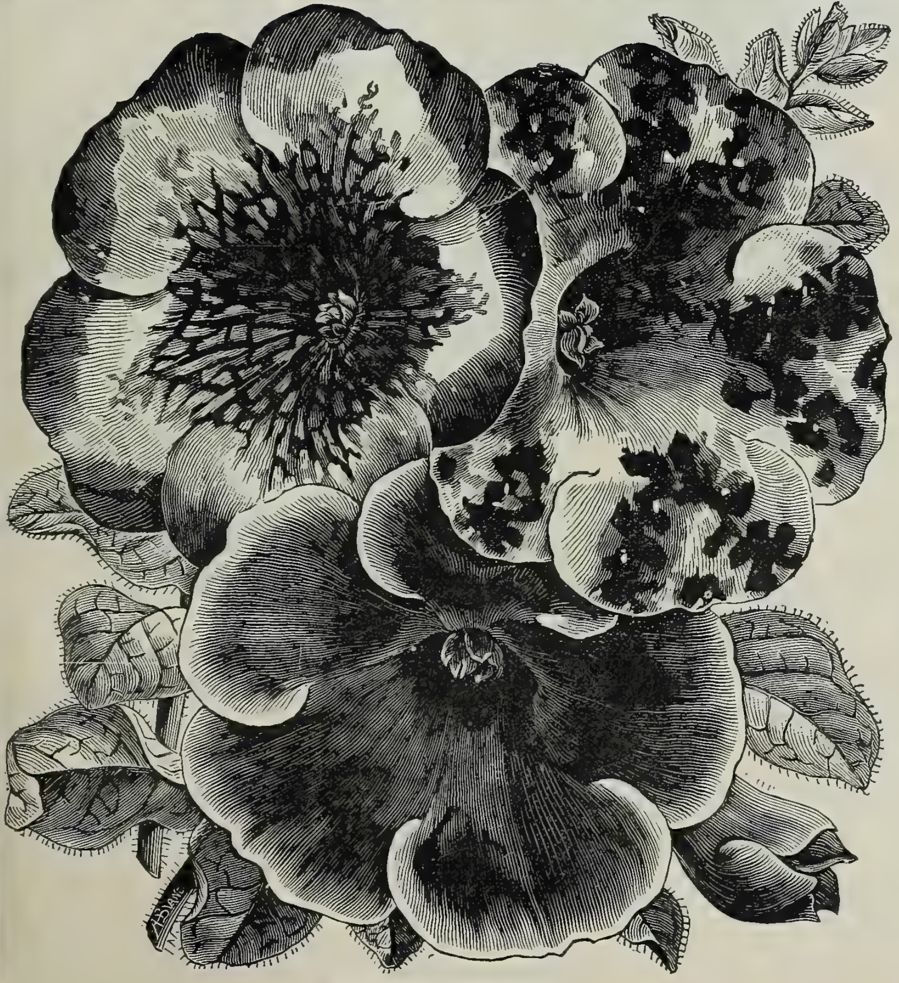
So popular have our collections of Sweet Peas always been that we now offer Nasturtiums in collections, enabling those who prefer to know just what varieties they are to receive to secure a large number, distinct and varied in color, at a greatly reduced price.

198—**Our Special Collection of Dwarf Nasturtiums.** Ten named varieties, our selection, but including the *New French Chameleon* and *Liliput*..............................30c.

199—**Our Special Collection of Tall Nasturtiums.** Ten named varieties, our selection, but including *Sunlight, Moonlight* and *Tall Chameleon*..............................30c.

200—**Our Favorite Collection.** One packet each of Tall Nasturtiums—Sunlight, Moonlight, Salmon Queen, New Tall Chameleon, Golden-Leaved Scarlet, Prince Henry, Pearl, Rose, and one each of Dwarf—Bronze Color, Cloth of Gold, Cœruleum Roseum, Empress of India, King Theodore, Rose, New Chameleon and Liliput—16 varieties for 40 cents.

The packets in these collections are not specially prepared for this—that is, having but few seeds—but are just what we sell at our counters for 5 cents each—*full size,* containing from 30 to 40 seeds. Our Special Offer *does not apply* on collections, nor can there be any further discount, regardless of number purchased.



BLOTCHED PETUNIAS.

PETUNIA.

201—**Dwarf Inimitable.** Of compact habit and growing but five to eight inches in height, bearing profusely small striped flowers..............................10c.

202—**Grandiflora.** Choicest Mixed. Extra large flowers, with larger and more open throat than that of common type. Plant of robust growth and of free flowering habit..............................10c.

203—**Finest Striped and Blotched.** A choice assortment of striped and blotched varieties of many exquisite markings. 10c.

204—**Good Mixed**......................5c.

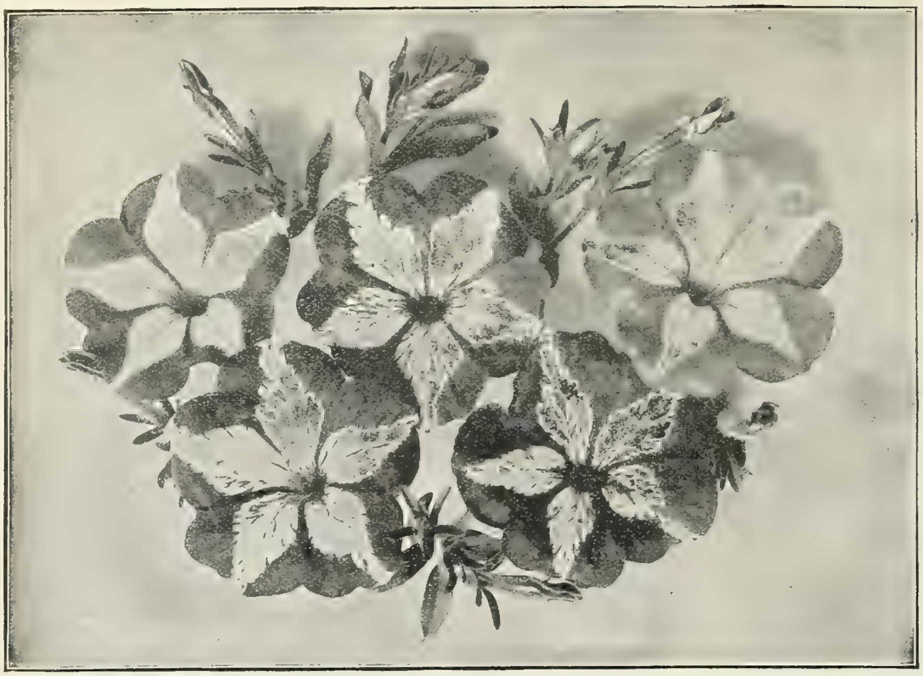
A New Strain of Petunia.

"Giants of California"

This new strain was developed in California. The flowers are nearly all ruffled or fringed and are often *five inches* in diameter. It embraces a wide range and many beautiful combinations of colors—some with deep throats of yellow, green, maroon, black or white veined, blotched or striped with contrasting shades. The plant is of vigorous habit. A superb strain, which all lovers of the Petunia should try.

205—**Choicest Mixed**................25c.

It might be well for us to mention that the seeds of Petunia being so very small it often appears as though there were but few seeds in a packet, whereas a packet contains from 150 to 300 seeds.



Petunia

Howard's New Star Petunias

THESE ORIGINATED with Messrs. A. B. Howard & Son, of Belchertown, Mass., who say of them:—"For a period of over twenty years we have made it a study to improve the single flowered, medium sized, multi-flora type of Petunias. By a long course of selection, cross-fertilization and breeding, covering these many years, our efforts have been successful in developing a strain of Petunias that for richness of color, beautiful markings, pleasing form of the flowers that cover the plants in wonderful profusion have won the distinction from expert judges of being, 'the most beautiful Petunias in the world,' a 'new creation,' and 'a revelation to the flower grower.'"

The flower is about two and one-fourth inches in diameter. Their ground color is a dark, crimson maroon, with a rich, velvety texture, justly pronounced equal to that of the Pansy. Showing through the ground color are violet veinings. From the center starts the points of a five rayed star, which broadens half way up, narrowing to a point at the margin of the flower. This star is a very light, blush pink, some almost white, which deepens in color as it reaches the margin and finally blends with the maroon ground color. Over eighty per cent of the plants from seed will produce the star markings. Others with veined and feathery markings on dark or light ground are not less surprisingly beautiful. The plants are free growers, branching freely and attaining an average height of 18 by 24 inches in diameter. They are remarkably prolific bloomers, single plants often having one hundred or more fully expanded flowers at a time.

The opinions of those lovers of Petunias who tried this strain last season are largely in accord with the preceding claims made by Messrs. Howard & Son. We offer seed this season at a greatly reduced price, the packets containing nearly three times as many seeds as those of last season.

Pkt. 15c.; 2 pkts. 25c.

WHAT OTHER PEOPLE SAY OF HOWARD'S STAR PETUNIAS:

[Taken from Messrs. Howard & Son's Circular to the Trade.]

[From C. L. Allen, Seed Grower.]

FLORAL PARK, N. Y., October 20, 1901.

Messrs. A. B. Howard & Son:

I take great pleasure in saying your Petunias surpass anything I ever saw of that class of flower, for form, for color and markings. Their intensity of color is something wonderful. I have never seen any to compare with them.

Yours very truly,

C. L. ALLEN.

Professor S. T. Maynard. of the Massachusetts Agricultural College, an expert horticulturist, says:

AMHERST, Mass., October 10, 1901.

Among the many new varieties or novelties among the common flowers of our garden, nothing is more beautiful than the 'Star Petunias' of A. B. Howard of Belchertown. Mr. Howard has devoted many years and a great deal of skill in improving the petunia by hybridization and selection and has produced a variety of the greatest beauty and fixed characteristics, causing remarkable tone to the two types of 'Star' and 'Feathered Star' blossoms. The colors are distinct and beautiful.

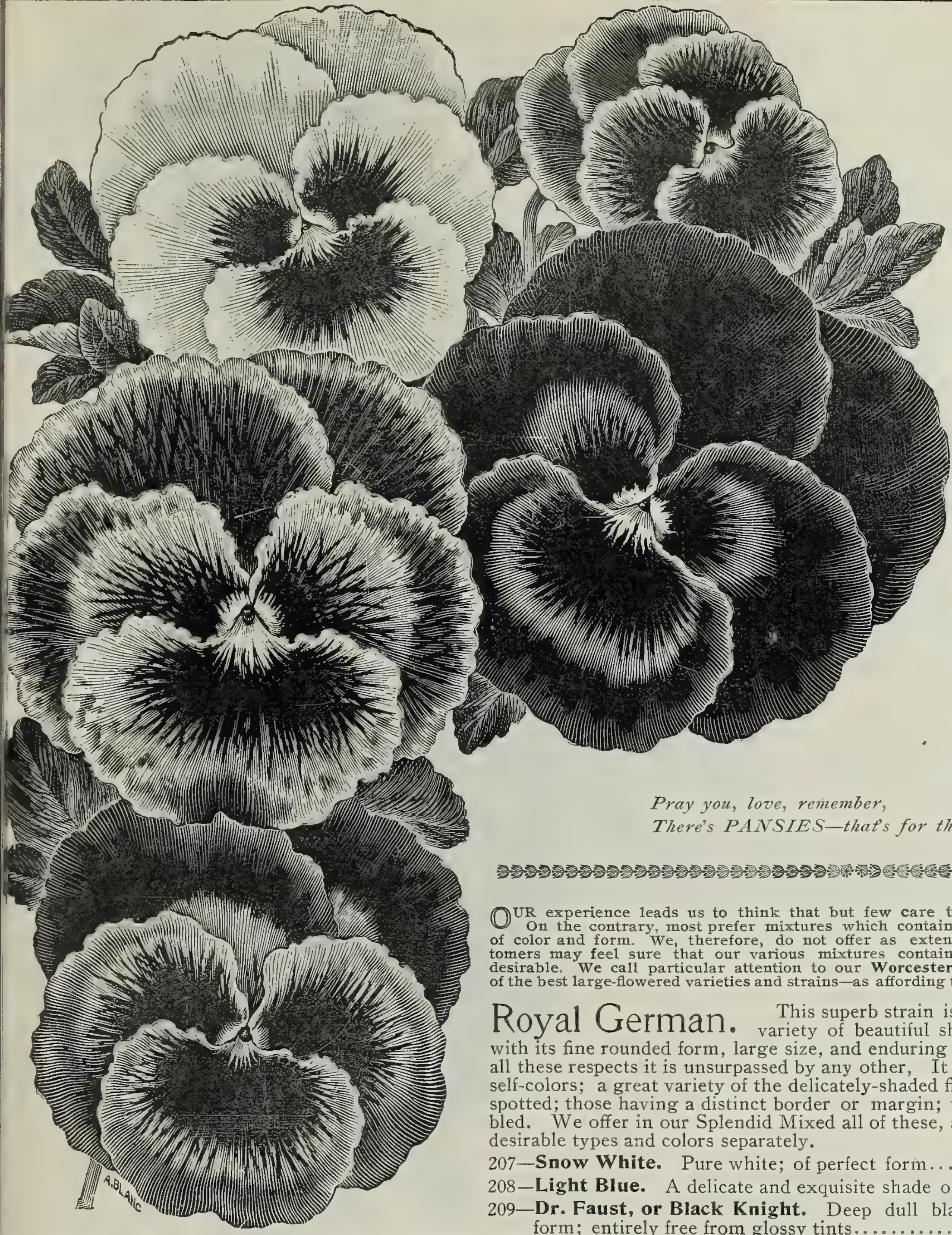
SPRINGFIELD, Mass., October 20, 1901.

Messrs. A. B. Howard & Son, Belchertown, Mass.

Dear Sirs:—I wish to congratulate you on the success which has attended your labors in breeding a strain of petunias that I consider stands unrivaled for perfection. I find that over 90 per cent come true from seed. I have bought and grown petunias from the largest seedmen in Germany, France and Italy, and yours stands today the leader of all varieties for bedding.

CHARLES L. BURR,

Secretary Springfield Amateur Horticultural Society.



Pansy

Heartsease

LOVE-IN-IDLENESS.

Heartsease!
One could look for half a day
Upon this flower.
—MARY HOWITT.

Pray you, love, remember,
There's PANSIES—that's for thought. —SHAKSPEARE.

OUR experience leads us to think that but few care to sow many separate colors. On the contrary, most prefer mixtures which contain the greatest possible variety of color and form. We, therefore, do not offer as extensive a list as many, but customers may feel sure that our various mixtures contain all the colors and varieties desirable. We call particular attention to our **Worcester Giant Mixed**—a combination of the best large-flowered varieties and strains—as affording the largest possible variations.

Royal German. This superb strain is notable for its very great variety of beautiful shades of coloring together with its fine rounded form, large size, and enduring quality of the flowers. In all these respects it is unsurpassed by any other, It comprises all the solid or self-colors; a great variety of the delicately-shaded flowers; the three and five spotted; those having a distinct border or margin; the fancy striped and marbled. We offer in our Splendid Mixed all of these, and also some of the most desirable types and colors separately.

207—**Snow White.** Pure white; of perfect form........................10c.

208—**Light Blue.** A delicate and exquisite shade of light lavander blue..10c.

209—**Dr. Faust, or Black Knight.** Deep dull black; very large and fine form; entirely free from glossy tints..............................10c.

210—**Deep Yellow.** Fine large flower; self-colored; of a rich golden yellow..10c.

211—**Rainbow.** So called from its bright, glowing colors; flowers reddish-lavender, shaded with white, pink and carmine..10c.

212—**Odier, or Five-Spotted.** Flowers large, of great beauty and of varied coloring. Each petal has a large spot or blotch of darker color and a distinct border of different shade.10c.

213—**Fancy Varieties.** Choicest Mixed. This mixture contains all of the best types of striped, blotched, mottled and edged flowers; of large size and rounded form, peculiar to the German varieties..10c.

214—**Show Varieties.** Choicest Mixed. A choice assortment of solid or self-colored varieties only, having the usual characteristics of the Royal German Pansies............10c.

215—**Royal German. Splendid Mixed**..................10c.

All of the above and other varieties, ⅛ oz. 65c., ¼ oz. $1.25.

GIANT TRIMARDEAU.

216—Mixed. A distinct class, with enormous flowers of rich and varied shades distinctly marked with large blotches on three lower petals. A charming and desirable strain of French origin, lacking somewhat the broad round form of the German varieties, but which, on account of its size and beauty, is a very popular one..........................10c.

⅛ oz. 40c., ¼ oz. 65c., oz. $2.25.

PANSY -- Continued.

EXTRA LARGE FLOWERED.

217—Choice Mixed. A selection of extra large-flowered varieties containing a large proportion of the separate colors of German Pansies, with the usual characteristics of these flowers. On account of their substance, especially desirable for cutting. While not as desirable as the following for bedding, yet for early spring blooming this will be very satisfactory, especially to those who prefer large flowers rather than a greater profusion of smaller ones........................10c.

⅛ oz. 30c., ¼ oz. 50c., oz. $1.50.

SPECIAL MIXTURE—For Bedding.

218—This mixture is made of such varieties as experience has shown are best adapted for bedding; that is, those that will give the greatest freedom of bloom in the summer, and which, while not as large flowered as some, are yet by no means small. It comprises a large range of colors, and owing to the free blooming habit of the varieties selected is especially desirable for bedding, producing a bright effect, even in the hot weather, so trying to the Pansy.........10c.

⅛ oz. 30c., ¼ oz. 50c., oz. $1.50.

ENGLISH PRIZE, or English Face.

219—Choicest Mixed. The peculiar characteristic of this strain is the bold face-like markings of the flowers, which, combined with their delicate texture and velvety appearance makes it a pleasing variation.............................10c.

⅛ oz. 25c., ¼ oz. 40c., oz. $1.25.

WORCESTER GIANT MIXED.

220—This mixture is made by us, from the choicest large-flowered varieties and mixtures, including the best of those here offered, and many other German and French Prize strains, which we do not consider necessary to list separately. It affords the greatest possible diversity of color, with almost innumerable shadings and markings, and like all mixtures to which we attach the name *Worcester*, is the best we know how to make..15c.

⅛ oz. $1.00, ¼ oz. $1.75.

221—**Good Quality.** Mixed. A good assortment of colors. A strain which, being grown in mixture, does not require the care in growing, or selection, of named varieties, and can therefore be sold at less price. It will give more pleasing results than might be supposed from the price at which we offer it.

⅛ oz. 20c., ¼ oz. 35c., oz. $1.00.

Phlox Drummondi

One of most popular annuals; hardy and of the easiest culture. Remarkably free flowering and brilliant and varied in coloring. It is very desirable for bedding, the brighter colors especially producing a striking effect; the red, when grown in masses, verifying the correctness of the name Phlox—signifying *flame*.

Seed may be sown in the open ground in the fall or early spring and will produce plants that will commence to bloom about the first of July, and continue in bloom until cut down by severe frosts. The dwarf varieties may be allowed to grow from four to six inches apart, but the tall varieties should stand about one foot apart, for if closer they are liable to mildew.

GRANDIFLORA.

A large-flowered strain; a great improvement on the old type both in size and form of flower.

222—**Choicest Varieties.** Mixed, all colors. ¼ oz. 25c., oz. 75c..5c.

NANA COMPACTA. (Dwarf Phlox.)

This dwarf type grows only from six to eight inches high, and is especially desirable for ribbon beds and edgings.

223—**Fireball.** Bright scarlet..........................10c.

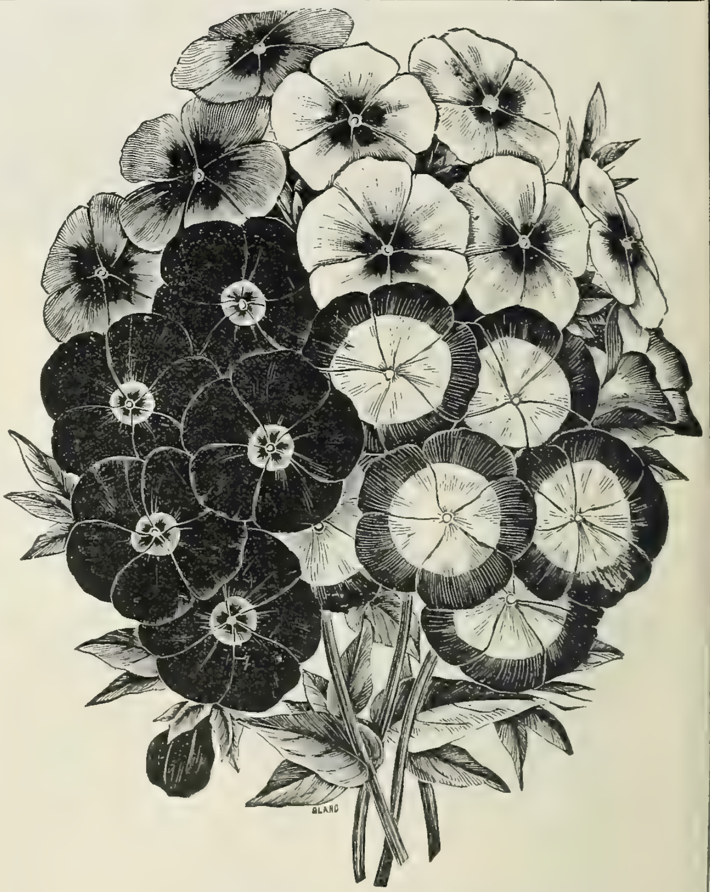
224—**Snowball.** Pure white..........................10c.

225—**Mixed Colors.** All the choice varieties. ⅛ oz. 30c., ¼ oz. 50c..10c.

Star, or Fringed Phlox. Star of Quedlinburg.

226—A distinct class, having petals partly fringed, partly toothed, instead of the entire round form of other Phloxes, and some of which being longer than others and regularly placed give the flowers a star-like appearance.

Mixed Colors. ¼ oz. 25c., oz. 90c.......................10c.



PERENNIAL PHLOX.

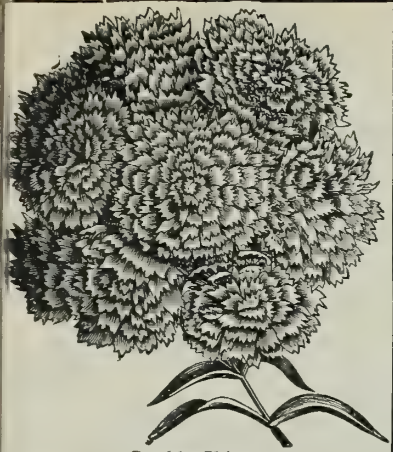
An old, well-known and very popular herbaceous plant, and growing in favor yearly. While propagation is usually accomplished by the amateur by division and by the florist with cuttings, our choice new varieties are seedlings and the field is open to all to easily increase their stock in this way, and is, to say the least, an interesting one, with but little expense.

227—**Tall Varieties.** Mixed colors. Seed saved from choicest varieties ....10c.

PINK

DIANTHUS ❦ *See also Carnation*

THE following varieties of Dianthus, commonly known as Chinese and Japanese Pinks, have been for a long time very popular, and deservedly so. In diversity of rich and beautiful markings they have but few rivals, and in ease of culture, freedom of bloom, and almost certainty of satisfactory results, they stand close to the Nasturtium. They are all hardy biennials, blooming the first year from seed, and some in most localities will often produce larger and finer flowers the second, but, owing to the ease with which they can be grown from seed, few treat them as biennials. Seed may be sown in the open ground at any time during May. Plants should stand about six inches apart.



Double China.

228—**Double China.** (Chinensis fl. pl.) Plant compact, bearing in large clusters small, double flowers of varied colorings. Mixed colors, ¼ oz. 15c., oz. 25c....................5c.

229—**Double White.** (Chinensis dalba fl. pl.) Double pure white..5c.

230—**Heddewig's Double.** (Heddewigi fl. pl.) Flowers very large and double, with finely fringed petals. A very fine strain, embracing a wide range of colors,—pink, rose, purple, maroon, white, and occasionally black and white. All colors mixed, ¼ oz. 20c., oz. 65c..............................5c.

231—**Crimson Belle.** (Heddewig's.) Large single flowers, beautifully fringed; deep crimson............................5c.

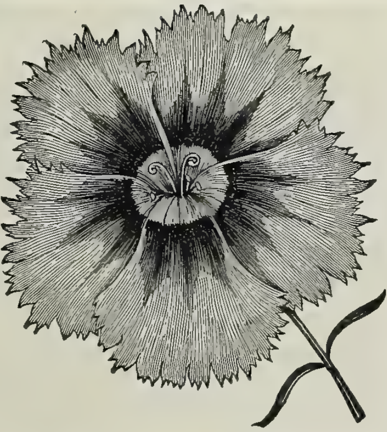
232—**Eastern Queen.** (Heddewig's.) Flowers single, often two to four inches across; silvery white ground, with rich shadings and crimson center........5c.

233—**Mourning Cloak.** (Heddewig's.) Large double flowers, with deep mahogany, almost black ground, and finely fringed edge of white................5c.

234—**Heddewig's Single Mixed.** Fine large flowers, of brilliant colors, deeply fringed or feathered..................5c.

235—**Double Diadem.** (Diadematus fl. pl.) Flowers large, double and finely marked. Beautiful and varied in color, running from crimson-purple to black purple. Choice mixed.............5c.

236—**Double Imperial.** (Imperialis fl. pl.) Bright, showy flowers, very double, finely variegated in a wide range of colors. ¼ oz. 15c., oz. 50c..........5c.



Heddewig's Single.

237—**Double Japan.** (Laciniatus fl. pl.) Large double fringed flowers, of peculiarly rich and varied colorings. A choice strain..5c.

238—**WORCESTER MIXED.** Our own unsurpassed mixture of above and other choice varieties. ¼ oz. 20c., oz. 60c...5c.

239—**DOUBLE DWARF LARGE FLOWERING HYBRIDS.** The plants of this new strain are of dwarf habit, only nine to ten inches in height when in full bloom. They bloom profusely and the flowers are of fine form and substance, of brilliant colors, and of the largest size, specimens often reaching a diameter of three inches. They embrace all colors, from white to crimson, and are mostly variegated in the striking markings peculiar to the Dianthus...10c.

PHYSALIS.

(Franchetti—Chinese Lantern Plant.)

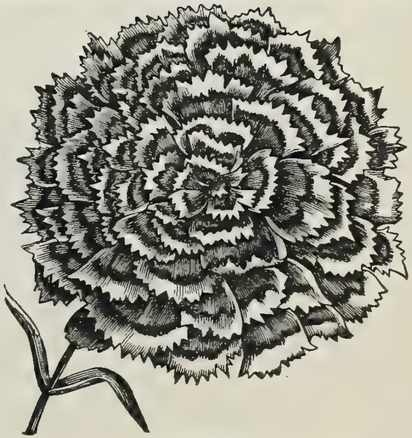
240—This has been extensively advertised under the latter name, and has also been known as the Japanese Winter Cherry. It is really a small-fruited Husk Tomato, but of little value, if any, for eating. It is, however, of merit as an ornamental plant, the large, bright-red husks, or pods, produced in the axils of the leaves making it very showy. The roots are perfectly hardy and send up numerous shoots early in the spring. These are of straggling growth but, when covered with the bright pods, the plant is very effective for either garden or house decoration. Perennial; easily attaining a fruiting size the first year.............10c.

PORTULACA

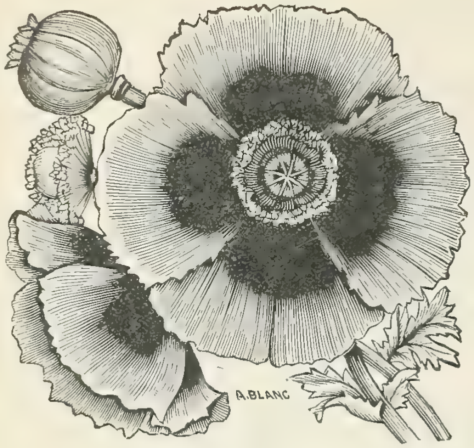
WELL-KNOWN tender annuals, blooming profusely soon after seed is sown until cut down by frost. They thrive in nearly all soils and locations, but succeed best in a light, sandy soil and sunny spot, enduring any amount of dry weather. They are of but little value for cutting, but for a dazzling display, when sown in masses, nothing equals them.

241—**Single Mixed.** ¼ oz. 25c., oz. 40c.....................................5c.

242—**Double, Choice Mixed.** Usually from fifty to sixty per cent of the flowers will come double, attaining to the highest proportion and largest size the latter part of the summer. ⅛ oz. 40c., ¼ oz. 65c...................................10c.



Double Japan.

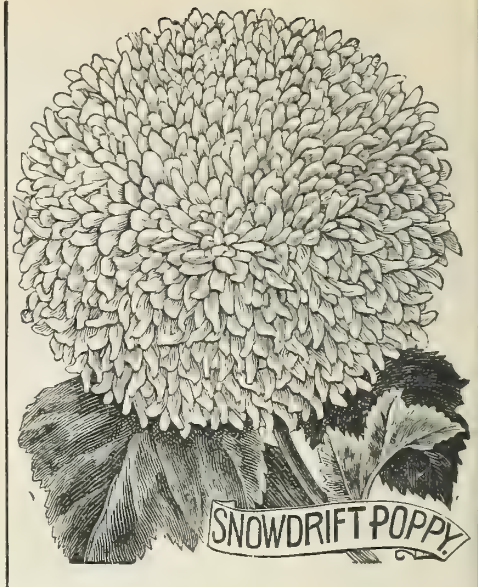


UMBROSUM POPPY.

POPPY

> But pleasures are like Poppies spread;
> You seize the flower, its bloom is shed.
> —BURNS.

This well-known plant is of the easiest culture, only requiring to be sown where designed to remain as it is very difficult to transplant. Although not generally adapted for cutting, some of the recent additions have flowers of more lasting quality than the older type, of which the poet writes.



SNOWDRIFT POPPY

243—**Umbrosum**. Scarlet, with black spot on each petal. A very showy variety, of dwarf habit........................5c.

244—**Snowdrift.** Large, pure white flower, very double and finely fringed. A grand variety........................5c.

245—**Cardinal.** Large, double flower, bright cardinal red; as finely fringed as the Snowdrift. A worthy companion for that beautiful variety........................5c.

246—**Tulip-Flowered.** Splendid large flower, borne well above the foliage, cup-shaped, bright scarlet, sometimes having a black spot at base of each petal. Very beautiful, and when grown in mass resemble a bed of scarlet Tulips. 1½ ft. ....5c.

247—**Shirley**. Flowers large, generally single or semi-double. Of a wide range of color, running from blush-white through shades of pink-rose and carmine to deep crimson, occasionally blotched or streaked with white. A very graceful and elegant variety, especially fine for cutting................5c.

248—**Double Carnation-Flowered, Mixed**. An old but desirable strain, embracing many distinct shadings and colors. Flowers very large and double, with beautifully fringed petals........................5c.

249—**Danebrog.** A single-flowered variety; bright scarlet with white spot at base of each petal. Very showy and distinct. 5c.

250—**Scarlet Single.** Flowers very large, often four inches in diameter........................5c.

PERENNIAL VARIETIES.

ICELAND POPPIES.

These bloom the first year from seed. Large satiny flowers, borne on long stems; somewhat fragrant; excellent for cutting, remaining in good condition several days if cut when first open. The plant is perfectly hardy and blooms from June to October.

251—**White, Yellow and Orange, mixed**.................5c.

ORIENTAL POPPIES.

These are also perfectly hardy and may be used to advantage in the perennial border. Seed may be sown in the open ground late in fall or early in the spring. They bloom early the second spring from sowing. All are single-flowered and of some shade of red, the following variety being much the best of the class.

252—**Orientale.** Flowers of immense size, six inches in diameter, bright scarlet. 3 ft.............................10c.

ROCKET. (Hesperis Matronalis.)

> In rival pomp, see either Rocket blow,
> Bright as the sun, or as the new fallen snow. —EVANS.

Hardy perennial plant of easy culture, bearing clusters of purple or white fragrant flowers. The fragrance is much more powerful in the evening. 1½ ft.

253—**Mixed**..5c.

RICINUS. (See Castor Bean.)

RHODANTHE. One of the finest everlasting flowers and an excellent plant for garden decoration. If flowers are gathered before they are fully expanded and dried in the shade, they will retain their color for years. Tender annual. 1 ft.

254—**Mixed Colors.** Various shades of pink, rose, crimson and white..5c.

SALVIA. (Flowering Sage.) Well-known perennials, blooming the first year from seed sown early in heat. They grow well in any light, rich soil, and will bloom until after frost. The Splendens (Scarlet) is one of our best and most effective plants for lawn decoration.

255—**Splendens.** The well-known variety; bright scarlet. 10c.

SCABIOSA, or Sweet Scabious. Mourning Bride.

> The Scabious blooms in sad array,
> A mourner in her spring. —Flora's Interpreter.

A popular hardy annual, blooming freely in cool locations or during the late summer and fall. The flowers of the Tall varieties are borne on slender but stiff stems and are excellent for cutting. The foliage is of compact, rounded form, about ten inches in height. The Dwarf varieties are similar in form but only one-half the height.

256—**Dwarf Double.** Mixed, all colors. Includes the new varieties..5c.

257—**New Tall Large-Flowering Double.** Mixed. Large double flowers in a remarkably wide range of colorings, shading from white to pink, crimson to deep red, and from lilac to deep black..5c.

SENSITIVE PLANT. (Mimosa Pudica.)

> Weak with nice sense the chaste Mimosa stands,
> And from each touch withdraws her timid hands. —DARWIN.

Very curious and interesting plant, the leaves closing if touched or shaken. Half-hardy annual.

258—**Sensitive Plant.** Pinkish white; 1½ ft..............5c.

SWEET PEAS.

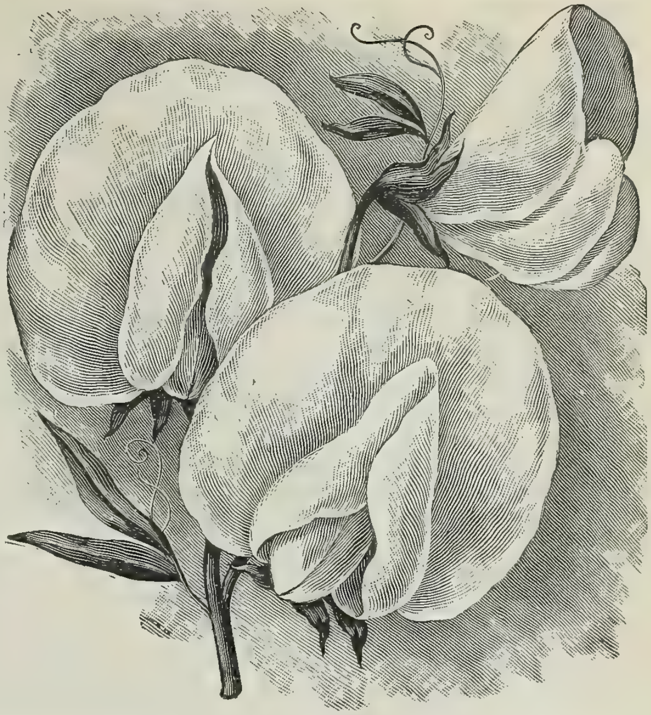
Here are Sweet Peas, on tiptoe for a flight;
With wings of gentle flush o'er delicate white,
And taper fingers catching at all things,
To bind them all about with tiny rings. —Keats.

A selection aimed to contain only the best or most desirable varieties, classified as to color or shade.

Descriptions of flowers, especially of those of a class as varied as the Sweet Pea, are at their best but meager and unsatisfactory, but as it is not always easy to determine in which class some varieties should be placed, the brief description with each variety may aid in distinguishing the difference between those in the same class.

Nearly all of the following varieties are of large size and excellent form, and generally superior to those of similar color or shade. We however carry in stock nearly all of the named varieties, and should any desire some of them they may safely include them in order.

Uniform price on all varieties. Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c.



White.

1. **Blanche Burpee**—Large and of fine form and lasting substance, stems long and stiff; often three-flowered.

2. **Emily Henderson**—The earliest pure white variety.

3. **Sadie Burpee**—Claimed to be of improved form, but otherwise similar to Blanche Burpee.

Pale Yellow or Cream.

4. **Coquette**—Deep primrose, standard shaded with lavender, of fine form and good size.

5. **Duchess of Westminster**—Standard creamy white, shaded with coppery rose; wings suffused with salmon-pink.

6. **Mrs. Eckford**—Light primrose yellow, large

7. **Queen Victoria**—Primrose yellow faintly suffused with purple, the nearest approach to yellow excepting Stella Morse.

8. **Stella Morse**—Large and of fine form, a combination of creamy yellow and salmon-pink, producing a beautiful apricot shade.

Light Blush.

9. **Modesty**—Silvery white faintly suffused with pink.

10. **Mrs. Sankey**—Often described as white, but is perhaps more appropriately classed here owing to its tinge of pink, becoming white only as it fades.

11. **Sensation**—Fine large flowers often three, sometimes four, on a stem, faint blush pink.

Pink and White.

12. **Blanche Ferry**—Standard bright pink; wings nearly white, very popular.

13. **Extra Early Blanche Ferry**—An extra early strain of the preceding, flowering at least a week earlier.

14. **Earliest of All**—Still earlier than the *Extra Early Blanche Ferry*, similar in color. Does not grow as tall as others.

15. **Little Dorrit**—Standard clear rosy pink: wings creamy white flushed with faint rose. Of desirable form.

Light Pink.

16. **Crown Jewel**—Standard flushed with rosy violet, wings creamy white, slightly tinted with rose.

17. **Katherine Tracy**—Both standard and wings of soft but brilliant pink. Large and of desirable form, plant vigorous and free flowering.

18. **Lovely**—Delicate shell-pink faintly tinged with yellow, a truly lovely variety.

19. **Mrs. Gladstone**—Brilliant but soft rose pink on white ground.

Deeper Pink.

20. **Apple Blossom**—Standard heavily shaded and edged with soft rose; on white ground; wings white with rose in center.

21. **Blushing Beauty**—White ground beautifully suffused with rose pink.

22. **Prima Donna**—Beautiful blush-pink. Large and of finest form, often four-flowered.

23. **Royal Robe**—Standard rich pink, wings soft rose. Large and of beautiful form.

24. **Triumph**—Standard creamy white flushed with salmon; wings shaded with carmine.

Rose.

25. **Colonist**—Rich rose pink, deeper in the wings.

26. **Her Majesty**—Beautiful, soft but deep rose, large and finely hooded,

27. **Mrs. Dugdale**—Both standard and wings, carmine-rose faintly marked with primrose. One of the largest flowers of all; uniformly three on a stem.

28. **Ovid**—Deep rose-pink veined with deeper shade; wings still deeper. Of good size and the desired hooded form.

29. **Prince of Wales**—Self-colored deep rose. Large, beautifully hooded, frequently four-flowered.

30. **Royal Rose**—Standard deep rose-pink; wings a lighter shade. Of largest size and fine form.

Scarlet and Crimson.

31. **Brilliant**—Rich brilliant red. Of good size and substance, and fine form.

32. **Firefly**—Bright scarlet, of medium size.

33. **Mars**—Intense scarlet; wings suffused with rose.

34. **Prince Edward of York**—Standard, a shade between scarlet and salmon; wings deep rose.

35. **Princess Victoria**—Standard bright scarlet; wings reddish mauve. Of good size and form.

36. **Salopian**—(Improved Sunproof.) The finest scarlet variety. Of the largest size and finest form, uniformly three-flowered.

Salmon and Orange.

37. **Chancellor**—Soft rosy-pink heavily shaded in center with salmon.

38. **Countess of Powis**—Light salmon-pink suffused with orange.

39. **Gorgeous**—Standard deep salmon-orange, wings suffused with deeper shade.

40. **Hon. F. Bouverie**—Soft salmon-pink, shading to lighter salmon buff at edges of standard and wings.

41. **Lady Mary Currie**—Of rich orange effect, standard veined with salmon-pink and shaded at base with carmine; wings rose-pink veined with deeper shade.

42. **Oriental**—Bright orange-salmon veined with deeper shade. Large and finely formed.

43. **Venus**—One of the loveliest of this class. Beautiful salmon-buff shaded with rose-pink.

Mauve and Lavender.

44. **Admiration**—Self-colored rosy mauve. A fine large flower freely produced.

45. **Celestial**—Light lavender with faint reddish tinge.

SWEET PEAS — CONTINUED.

46. **Countess of Radnor**—Light lavender, often with faint purplish shade, especially in later stage of bloom.
47. **Dorothy Tennant**—A rich self-colored reddish mauve, which the flower retains when fully expanded.
48. **Fascination**—An extra large flower, rich reddish mauve.
49. **Golden Gate**—Pinkish mauve and lavender blended.
50. **Lady Grisel Hamilton**—Light lavender standard with bluish wings.
51. **Lady Nina Balfour**—Delicate light lavender approaching mouse color.
52. **New Countess**—An improved *Countess of Radnor* more nearly free from reddish cast in standard.

Bluish-Purple with White.

53. **Butterfly**—Flowers small, but a popular variety from its peculiar form and color, creamy white with lavender shadings and purple edges.
54. **Lottie Eckford**—Silvery-white shaded and edged with lavender.
55. **Maid of Honor**—White ground shaded with light bluish-purple, and narrowly edged with violet.

Approaching Blue and Purple.

56. **Captain of the Blues**—Standard bluish-purple; wings purplish lavender.
57. **Navy Blue**—Perhaps as nearly approaching a ***True Blue*** as can be reasonably expected in a sweet pea.
58. **Indigo King**—Standard rich purplish maroon; wings of more bluish cast.

Claret and Maroon.

59. **Black Knight**—The darkest variety, standard rich dark claret; wings shaded with brownish purple.
60. **Captivation**—Bright claret.
61. **Duke of Clarence**—Rosy claret approaching purplish maroon.
62. **Duke of Sutherland**—Rich claret with reddish tinge, shading to purple at base.
63. **Othello**—Deep maroon, self-colored; very large.
64. **Shahzada**—Very dark maroon, with a tinge of purple.
65. **Stanley**—Self-colored dark maroon.

Striped and Variegated.

66. **America**—White, striped with bright red.
67. **Aurora**—Creamy white, striped or flaked with orange-salmon; extra large.
68. **Gray Friar**—Creamy white, marbled with light purple.
69. **Juanita**—(Striped Celestial.) Light lavender markings on creamy-white ground. Large and of fine form.
70. **Lottie Hutchins**—Creamy-white, striped or flaked with light pink. Large, of fine form, and very attractive.
71. **Mrs. Jos. Chamberlain**—Ground clear white, striped with pink; extra large and of good form, very popular.
72. **Princess of Wales**—White, striped with mauve.
73. **Ramona**—Rich cream, with broad splashes of pink.
74. **Senator**—White, heavily striped with chocolate maroon.

MIXTURES OF SWEET PEAS.

OUR CHOICE MIXTURE.

This Choice Mixture is made by us, and contains about sixty named varieties, including both old and new, mixed in right proportions of color, and with the exception of some of the latest highest priced varieties contains all that is desirable for a choice mixture.

Pkt. 5c., oz. 10c., 2 oz. 15c., ¼ lb. 25c., lb. 65c.

OUR BEST MIXTURE.

This is made of the large flowering varieties only. It contains most of the above desirable varieties and many of the higher priced more recent introductions not therein contained. Special attention is given that it shall be rightly proportioned as to color as well as to size, form and substance of the flowers. Nearly all have long stems, many of them bearing three and sometimes four flowers. This mixture cannot be surpassed by any other, regardless of the price that may be attached to it.

It is the Best. Pkt. 5c., oz. 15c., 2 oz. 25c., ¼ lb. 35c., lb. $1.00.

COLLECTIONS OF SWEET PEAS.

These collections are made of our *regular full size packets* and, while of our selection, are guaranteed to contain only desirable varieties. They are NOT included in our Special Offer.

OUR SPECIAL COLLECTION.	**10 Named Varieties,**	**25 cents.**
OUR FAVORITE COLLECTION.	**15 Named Varieties,**	**35 cents.**

Of Our Favorite Collection we have to say that special attention is given that the varieties shall be as distinctive as possible and also those most desirable.

BUSH SWEET PEAS.

This class, an intermediate one between the Tall and Dwarf, growing about 18 inches high, is desirable for planting in rows, and presents a pleasing effect in the flower garden when thus planted. As the name indicates, the Bush Sweet Peas are of bushy habit, and are to a considerable extent self-supporting when allowed to stand about six inches apart, requiring then but little if any support. The flowers are not over two-thirds the size of those of the Tall varieties, and are therefore of but little value for cutting. Nearly all the colors and shades of the Tall varieties are now found in this class, and a number of named varieties have been introduced, but as its chief value lies in its use for garden decoration, and for that purpose the effect would be more pleasing when planted in mixture, we offer seed only in this way:

Mixture of about Fifty Varieties or Colors. Contains the named varieties and many colors not yet separately introduced.

Large pkt. 10c., oz. 20c., ¼ lb. 50c.

DWARF, OR CUPID SWEET PEAS.

Plants of this class seldom grow over six inches high, but are of spreading habit. The dense mat-like mass of rich green foliage thickly set with flowers of varied colors is very attractive and makes this class desirable for bedding purposes. The flowers are much larger than are those of the preceding class, nearly if not quite as large as those of the Tall varieties, but unfortunately are short stemmed, which makes them like those of the Bush class — of but little or no value for cutting. There is, however, to be placed to the credit of this class the fact that it endures and thrives during periods of dry, hot weather, which would greatly injure if not destroy the Tall sorts. Care, however, should be taken that the plants should not stand too closely, as owing to the very dense growth they do not so quickly dry after heavy rains, and are, if too close, liable to rot. There have been introduced a number of named varieties; most of these bear the name of some of the Tall sorts, and are identical in color with the variety which name they bear. In addition there are a larger number of varieties or colors which have not yet been given a name, and nearly all of the colors of the Tall varieties are now found in this class. We offer some of the most distinctive and desirable varieties and a mixture containing most of the named sorts and a much larger number of unnamed colors.

Mixture of over Fifty Varieties or Colors. Pkt. 5c., ½ oz. 10c., oz. 15c., 2 oz. 25c., ¼ lb. 40c.

EVERLASTING, OR PERENNIAL SWEET PEA.

(Lathryus Latifolius.)

This is very hardy, having long roots which penetrate the soil to a great depth. It is slow in starting, does not produce many flowers the second year, but when fully established blooms profusely and is one of the most satisfactory perennials. The flowers are borne in clusters on stout stems, only lacking fragrance to make them more popular; but they are, nevertheless, especially valuable for cutting, and the plant should be more generally cultivated. The colors are white, purple and red.

261—**Mixed Colors**........5c.

SWEET WILLIAM. (Dianthus Barbatus.)

This well-known, free flowering perennial is very desirable for an effective display in the border, is of the easiest culture, and should be more generally cultivated. Seeds may be sown at any time from early spring to the middle of August and will make fine blooming plants for the following spring.

262—**Choice Single, Mixed**....5c. 263—**Choice Double, Mixed**....5c.

SWEET SULTAN. (Centaurea Moschata.)

An annual of easy culture, bearing fragrant flowers.

264—**Mixed, White and Purple**........5c

STOCK.

One of our most popular and easily grown annuals, only needing a good, rich soil, good seed and ordinary culture to furnish a profusion of beautiful and fragrant flowers. The seed now offered is a great improvement over the old strains of Gilliflowers, and will produce as large a proportion of double flowers as plants of the named sorts grown from cuttings.

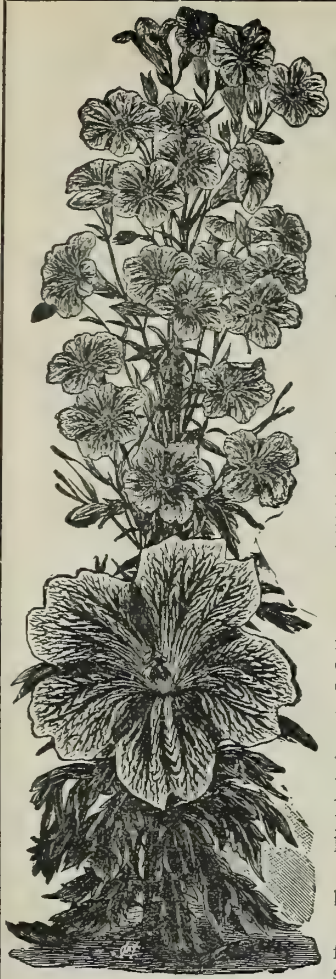
265—**Largest Flowering Globe Pyramidal, Mixed.** This new strain produces flowers of the largest size and perfectly double. Individual blooms are often over two inches in diameter. ⅛ oz. 75c........10c.

266—**Large-Flowering Dwarf—Ten Weeks.** An improved strain of the German Ten Weeks. Flowers very large and double. Plant of dwarf habit, blooms profusely, and is excellent for bedding. Mixed colors. ⅛ oz. 40c., ¼ oz. 75c........10c.

267—**Double German Ten Weeks.** Fine mixed. ⅛ oz. 25c., ¼ oz. 40c., oz. $1.50........5c.

268—**Giant Perfection.** One of the finest large-flowered varieties, with large spikes of double flowers. Plant of vigorous habit, growing about two and one-half feet in height. Mixed colors........10c.

269—**Cut-and-Come-Again.** (Princess Alice.) Plant of branching habit, producing from spring to fall a profusion of pure white double flowers. ⅛ oz. 75c........10c.



Lower Flower 1-2 Actual Size.
EMPEROR SALPIGLOSSIS.

SALPIGLOSSIS - VELVET FLOWER.

A lovely class of half-hardy annuals which should be more generally cultivated. Flowers funnel-shaped, of beautiful and varied colors, exquisitely marbled and veined; in bloom from August to October. 1½ to 2 ft.

270—**Choice Mixed** .... 5c.

271—**NEW EMPEROR.** This forms only one leading stem, which often grows as thick as one's finger and bears on its end a bouquet of the most beautiful flowers. These are richly veined with gold and much larger than those of the old type. There is as much difference between the "Emperor" variety and the old type as between the improved varieties of Petunias and the common. The throat is wide open and short, and the edge of the flower is not so deeply incurved as with the old type. Mixed colors .... 10c.

VERBENA.

A well-known favorite flower, which should be more generally grown from seed. If sown in the open ground in May it will bloom in August, and, of course, somewhat earlier if sown in the house in March. Half-hardy perennial trailer. 1 ft.

272—**MAMMOTH, Mixed.** Not only are the trusses of extra size, but the individual florets as well are much larger than in any of the old varieties, often greater in diameter than a silver quarter. It embraces all the colors with the markings peculiar to the Verbena. ¼ oz. 40c., oz. $1.50 ...... 10c.

273—**SCARLET DEFIANCE.** Large trusses; bright glowing scarlet .... 10c.

274—**MAMMOTH WHITE.** Both truss and florets are of the largest size. Flowers are of good substance and of delightful fragrance .... 10c.

275—**ITALIAN STRIPED.** The trusses of this are large, but florets are smaller than are those of preceding varieties. Each floret is distinctly striped in bright colorings embracing a wide range of shades .... 10c.

276—**FINE MIXED.** All colors. ¼ oz. 25c., oz. 75c. .... 5c.

277—**HYBRIDA COMPACTA.** Mixed. A distinct strain, of dwarf habit. The plant forms a compact bush about five inches in height and blooms profusely throughout the season. Trusses large; colors white, scarlet and violet .... 10c.

WALL FLOWER.

The flowers of the Wall Flower are deliciously fragrant and greatly prized. The large, massive, conspicuous spikes of the Double German varieties have a charming effect, while the more bushy, compact growth and profuse blooming single ones render them exceedingly attractive. Tender perennials. 1½ ft.

278—**SINGLE, Fine Mixed** .... 5c.

279—**DOUBLE, Choice Mixed** .... 10c.

WILD CUCUMBER. Echinocystis Lobata.

280—A very rapid growing annual climber, reaching a height of 20 feet. Seeds germinate more freely if soaked a few hours in warm water before sowing .... 5c.

WILD FLOWER GARDEN MIXTURE.

281—This mixture is made from a large number of the best free-flowering annuals, and will be found very useful to sow in various places where there is quite an area to be filled up without much expense or labor. If properly cared for and weeds are kept out, this mixture will furnish flowers continually through the season. oz. 25c., ¼ lb. 75c. . 5c.

ZINNIA. Youth and Old Age.

The Zinnia has always been a popular plant on account of its freedom of bloom, bright, showy flowers, and the ease with which it could be grown. Although not a graceful plant, it is, when grown in masses or as the background to other lower-growing plants, striking and effective. Hardy annual. 1 to 3 ft.

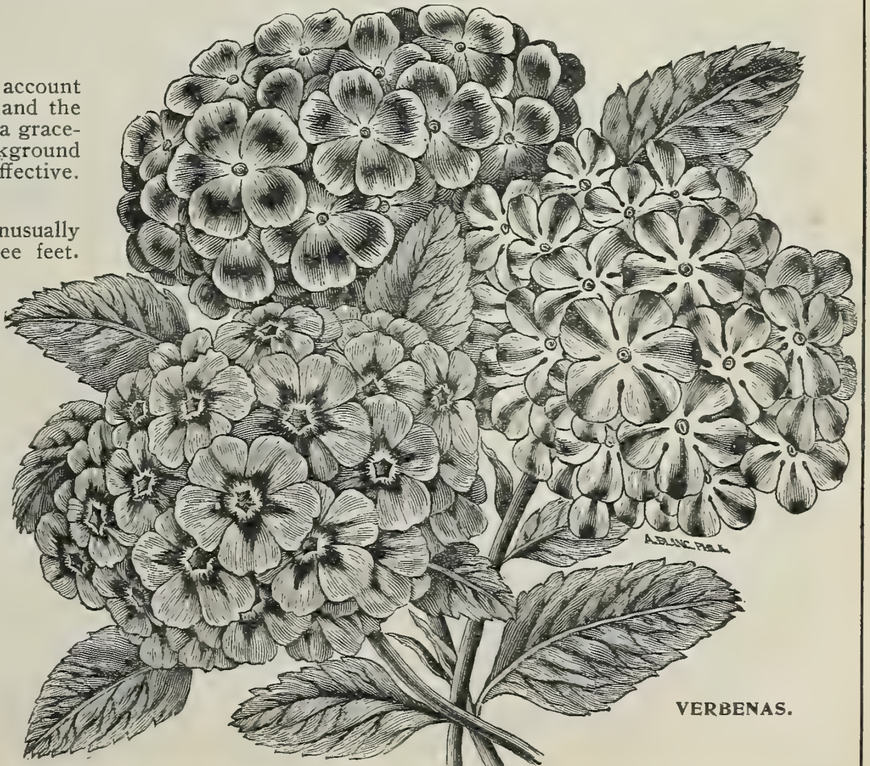
282—**MAMMOTH, Mixed.** This plant is of unusually vigorous growth, often reaching a height of three feet. The very double flowers are of immense size, about four inches in diameter, and of rich and varied color. ¼ oz. 25c., oz. 75c .... 10c.

283—**CHOICE MIXED.** Not equal in size of flower to the Mammoth, but, nevertheless, a fine strain of double flowers with many brilliant colors. .... 5c.

284—**STRIPED, or Zebra.** The flowers of this are striped or mottled with contrasting colors. .... 10c.

285—**LILLIPUT, Mixed.** Plant grows about one foot high and bears in profusion small, very double and globular flowers about one inch in diameter of very brilliant colors .... 10c.

286—**HAAGEANA.** Plant of distinct growth, more slender than others, flowers a little over an inch in diameter, semi-double and single. Color deep orange. The plant is of very free-flowering habit, and the flowers are excellent for cutting. .... 10c.



VERBENAS.

BULBS AND TUBERS For Spring Planting.

To no class of plants can the term *interesting* be more truthfully applied than to bulbs and tubers. The following list contains only those which are easily within the scope of the amateur, and of some it may be said that in a production of magnificently beautiful flowers with comparatively little care, they are unequaled.

BEGONIAS. Tuberous Rooted.

These are among our finest bedding plants. They, however, seem yet to be appreciated but by only a portion of those who cultivate flowers. For some unknown reason the idea seems prevalent that their cultivation is difficult. We do not so consider it. They require a well enriched soil, a location partially shaded, and protection from severe winds. The soil should be moist but never soggy. Given these conditions, their culture is simple and easy. For best results, tubers should be started early in the house and then be planted out only when danger of frost is past. They will come into flower very soon and bloom profusely and continuously until frost. The tubers can then be taken up and stored in dry sand in a moderately warm place.

The flowers are marvels of beauty—delicate yet brilliant, of beautiful form and very large, often measuring, when conditions are favorable, over four inches in diameter. In color they are extremely varied, ranging from pure white through many shades of pink and rose to scarlet and deep crimson, and from pale yellow to deep orange. The foliage is remarkably clean and healthy, varying in form, deep green, presenting a very pleasing contrast with the bright flowers.

Single Varieties. White, Pink or Rose, Red and Yellow. Each, 10c. Doz. $1.00. Postpaid.

Double Varieties. Same colors. Each, 15c.; 3 for 40c. Doz. $1.50. Postpaid.

CALADIUM ESCULENTUM. Elephant's Ears.

A very large-leaved tropical plant of rapid growth. In warm, rich, moist soil a single bulb will send up from three to ten stalks four to five feet in height, each having a leaf three to four feet long and nearly as wide. Very ornamental, planted either singly or in groups.

Extra Large Bulbs. Each, 20c.; 3 for 50c. Postpaid.
Second Size Bulbs. Each, 15c.; 3 for 40c. Postpaid.

Per Dozen, by Express. { Extra Large, $1.50.
Second Size, $1.25.

CANNAS.

For peculiarly beautiful flowers, with rich, brilliant and diverse colors and stately foliage, no plant exceeds the Canna. Planted in masses on the lawn, no other plant is its equal in striking decorative appearance, and it is at present probably the most popular of all bedding plants, even exceeding in popularity the old-time favorite. the Geranium; a thing of interest from the time the first leaves begin to unfold, and blooming continuously until cut down by frost. It is also an exceptionally fine pot plant either for summer or winter blooming; if desired for the latter purpose it can be grown in the garden or bed, and before danger of frost can be lifted and potted with but a little check to the plant, and will continue to grow and bloom through the winter.

We offer a choice selection of the best varieties: strong, dormant roots, with two or three eyes. (Late in the season we are sometimes obliged to send growing plants.

Each, 10c., 3 for 25c., dozen, $1.00. Postpaid.

A. Bouvier. Brilliant crimson, of deeper hue when fully expanded; foliage bright green; 6 feet.

Alsace. Delicate sulphur yellow, changing soon to creamy-white; the nearest approach to pure white; foliage green; 4½ feet.

Austria. A fine variety of the orchid-flowered or Italian type. Canary-yellow; foliage green, large and handsome; 5½ feet.

Burbank. Also of the Italian type; similar in color of flower and foliage to the *Austria;* 5 feet.

Chas. Henderson. Deep but brilliant crimson; foliage broad, a rich deep green with narrow margin of bronze; 4 feet.

Flamingo. Clear intense crimson, large flowers borne in immense trusses and in great profusion.

Florence Vaughan. Yellow, spotted with red; foliage green; a popular variety; 4 feet.

Grand Rouge. A gigantic dark-leaved variety, often attaining a height of over 8 feet. Very desirable for massing. It also bears freely bright scarlet flowers of fair size which adds to its value.

Italia. A beautiful large orchid-like flower, brilliant red in center with a wide irregular margin of yellow; foliage green; 5 ft.

Madame Crozy. A very popular variety; crimson-scarlet, bordered with golden-yellow; foliage bright green, broad and massive. Although of vigorous growth, the plant seldom exceeds 4 feet in height, and often commences to bloom when about a foot high.

Morning Star. Yellow, spotted with maroon; somewhat similar to *Florence Vaughan* but does not grow as tall.

Paul Marquant. Rich salmon shaded with rosy carmine; foliage dark green; a distinct and pleasing variety; 4 feet.

Peachblow Pinkish-white, changing to rose, with a distinct blotch of deeper shade at neck; foliage green; of dwarf habit.

Queen Charlotte. Bright orange-scarlet, widely edged with golden-yellow; a popular variety; of dwarf habit.

Robusta. A tall variety with ornamental dark foliage; 7 to 8 ft.

Shenandoah. A splendid red or bronze leaved variety, beautifully veined and tinted. It bears fine large trusses of waxy-pink flowers and, unlike other dark leaved sorts, blooms early and abundantly.

Mixed. All varieties, doz. 75c., postpaid; hundred by express, $5.00

Fairy Lilies or Zephyr Flowers. (Zephryanthes.)

These are a section of the large and beautiful Amaryllis family. Only one or two varieties are generally known or to any extent cultivated, and none to the extent to which their beauty warrants. They are desirable both for garden and pot culture and are among our most easily grown plants. They are easily kept over winter, treated in the same manner as the Gladiolus.

Rosea. Beautiful rose-pink; one of the oldest and best; blooms all summer. Each, 5c.; 3 for 10c.

Floribunda. A new variety, bearing flowers usually in pairs, nearly as large as some varieties of Amaryllis. These are rich golden yellow, and of a very peculiar fragrance. A pleasing novelty. Each, 8c.; 3 for 20c.; doz. 60c.

Candida; Pure white flowers, which are smaller but more freely produced than those of the other varieties. Each, 5c.; 3 for 10c.; doz. 35c.

Montbretia.

When grown in masses this makes a very effective display. The flowers run from orange scarlet to deep orange, and are abundantly produced during the latter part of the summer. It succeeds everywhere, requires little care, and propogates rapidly. Each, 5c.; 3 for 10c.; doz. 30c.; postpaid.

Summer-Flowering Oxalis.

We know of no plant more suitable than this for edging borders, beds, walks, etc. It is also very desirable for massing, making an attractive and effective display. It blooms quickly after planting, and continuously and profusely through the season, and were there no flowers the beautiful clover-like foliage would alone entitle it to a place in the garden.

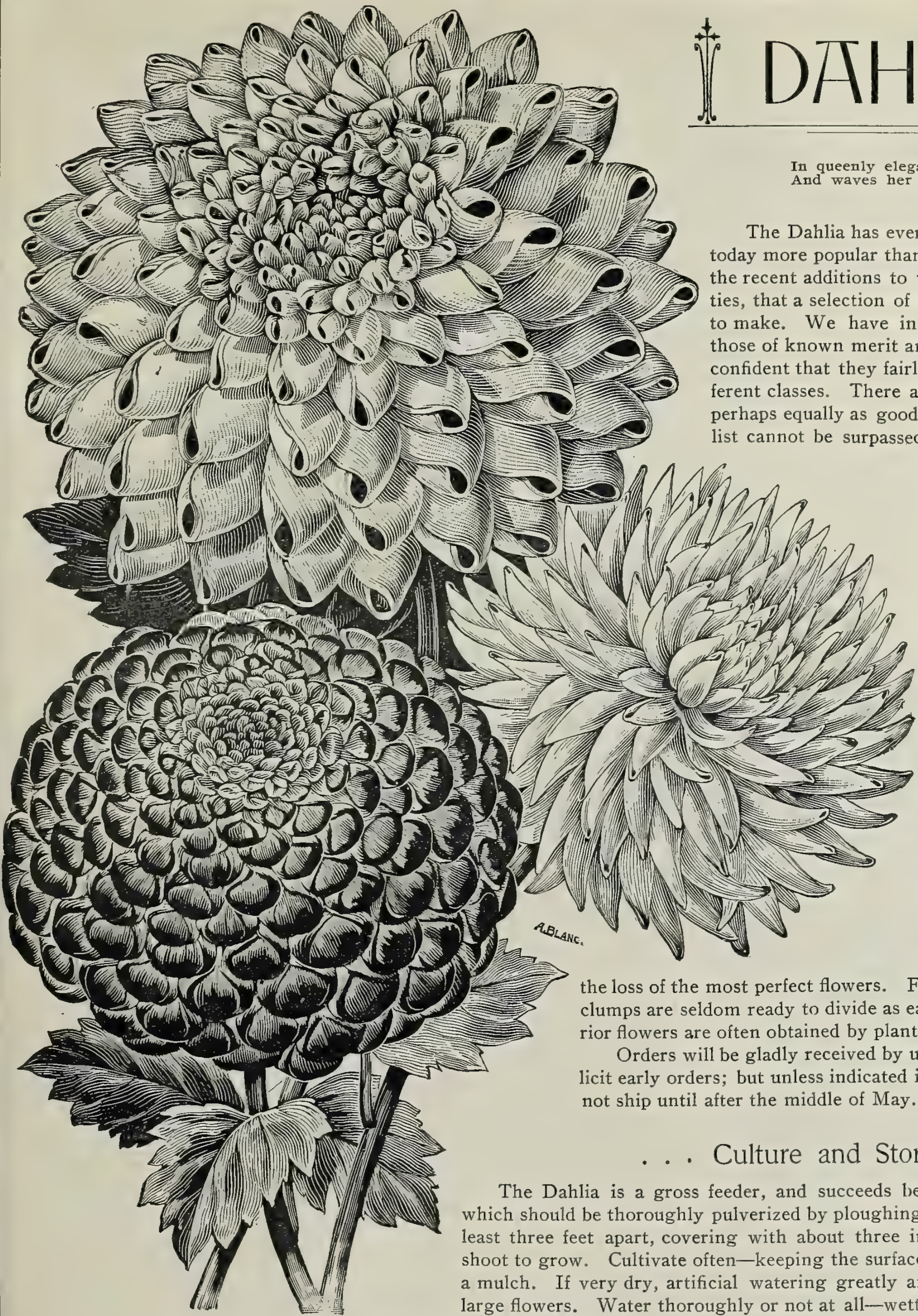
Dieppi. Pure white with violet shading.

Lasiandra. Rose-pink; foliage beautifully cut and distinct from the preceding.

Each of above, large bulbs, doz. 10c., 25 for 15c., 100 for 40c. Smaller bulbs (which we find are nearly as satisfactory), pkg. of 100 or more, 15c.

DAHLIAS

In queenly elegance the Dahlia stands,
And waves her coronet.
—Flora's Interpreter.



The Dahlia has ever been a popular flower, and is today more popular than ever, so numerous have been the recent additions to the already large list of varieties, that a selection of the best is somewhat difficult to make. We have in the following included only those of known merit and distinctive coloring, and are confident that they fairly represent the best of the different classes. There are other good varieties, some perhaps equally as good as these, but as a whole this list cannot be surpassed, nor are the varieties of any color or form exceeded in merit by any others of similar coloring or form not herein included. Tubers may be planted soon after the first of May, but we by no means advise planting much before the first of June. Our climate is not especially adapted for growing the Dahlia to perfection, lacking the moist atmosphere of England and some other countries, and we get our best blooms in the cool fall months. It is, therefore, essential that planting should be made with reference to this, and there is nothing to be gained by an early planting, as often recommended. On the contrary, our experience, and that of specialists, has proved to us that it is often at the loss of the most perfect flowers. Furthermore, unless forced, the clumps are seldom ready to divide as early as the first of May. Superior flowers are often obtained by planting as late as the first of July.

Orders will be gladly received by us at any time. Indeed, we solicit early orders; but unless indicated in order when desired, we shall not ship until after the middle of May.

. . . Culture and Storage . . .

The Dahlia is a gross feeder, and succeeds best on rich, strong, deep soil, which should be thoroughly pulverized by ploughing or spading. Set the tubers at least three feet apart, covering with about three inches of soil. Allow but one shoot to grow. Cultivate often—keeping the surface of the soil well stirred acts as a mulch. If very dry, artificial watering greatly aids the plant in production of large flowers. Water thoroughly or not at all—wetting the surface only is detrimental rather than helpful to this or any other plant. Before *hard frost* take up the plant, cut off the top, dry the tubers slightly, inverting the clump so that the juice may run out of the stem when cut off. (Neglect of this has occasioned the loss of many.) Store in a cool cellar (inverted). Examine occasionally to see that they are not too dry, which will cause them to shrivel, or too moist, which will start them growing or cause them to rot.

All varieties at the uniform prices of 12c. each; $1.25 per dozen. Postpaid.

Dahlias--Continued.

Show and Fancy Dahlias.

Show Dahlias include all large close flowering varieties of a single color and those in which the ground color is of a lighter shade than the edges or tips.

Fancy Dahlias include all striped large flowering varieties and those in which the ground color is darker than the edges or tips. They are, as a rule, very variable, and often show but a single color.

A. D. Livoni, sea-shell pink. Best of all dahlias,
Amazon, yellow, edged red.
Bird of Passage, light ground, tipped pink.
Crimson Variegatum, deep crimson, tipped white.
Dawn of Day, buff, often shows lighter blotches.
Dr. J. P. Kirkland, dark crimson, very fine, large flower.
Elegans, lilac, tipped white.
Florence, yellow, color good.
Gilder, fawn and lighter shade.
Glowing Coal, scarlet.
Hector, orange scarlet.
John Standish, dark scarlet.
Julia Wyatt, creamy white.
King of Dwarfs, purple.
King of Reds, orange, suffused scarlet.
Maria Gerring, yellow, striped red.
Mantes la Ville, purplish lilac, large and free.
Mary D. Hallock, yellow, good flower, free.
Modesty, blush, with lighter center.
Miss Marsh, rose and white, free and good.
Mrs. Gladstone, soft blush white, often tinged with pink. One of the best.
Mrs. Wytham, buff, large.
Mrs. Stancomb, yellow, tipped fawn.
Picta Fulgens, scarlet, tipped white.
Pioneer, dark maroon, nearly black.
Puritan, white tinted, lavender, crimson spots.
Robin Adair, brown buff, excellent and desirable.
Royal Queen, creamy ground, edged purple.
Woman in White, creamy white.

Pompom Dahlias.

Pompom, or Lilliputian Dahlias, include all small flowering varieties.

Admiral Dot, light ground, edged crimson, closely quilled.
Ariel, orange buff.
Black Dude, dark maroon.
Challenge, crimson, tipped white, very variable.
Darkness, maroon, nearly black.
Fashion, light orange.
Goldperle, yellow and brick red.
H. Miliesky, shaded crimson.
Ida Fisher, rose and white.
John Lucaks, orange red and white.
Kleine Domatea, orange.
Little Bobby, rich crimson.
Little Daisy, rose and white, very fine.
Little Jack, rich crimson maroon.
Little Rifleman, maroon, blotched white.
Mabel, amber.
Rosalie, primrose, often edged pink.
Vivid, orange scarlet.
White Pompom, white.
Winifred, light ground, tipped rose.

Cactus Dahlias.

Cactus Dahlias are characterised by long, pointed, somewhat revolute petals.

Bertha Mawley, cochineal.
Brilliant, bright crimson.
Cannell's Gem, red, shaded orange.
Countess of Radnor, amber, pink and silver.
Juarezii, scarlet, the original "cactus" dahlia.
Kaiserin, sulphur yellow.
Mrs. Barnes, primrose and pink,
Mrs. Bennett, soft crimson.
Mrs. A. Peart, creamy white.
Mrs. Gordon Sloane, pinkish terracotta.
Prof. Baldwin, orange.
Robert Cannell, magenta.

Decorative Dahlias.

Decorative Dahlias include all large, loose flowering varieties that do not properly come under the Show, Fancy or Cactus classes. They have often been sold as "Cactus" dahlias, but really are intermediate between the Show and Cactus forms.

Amphion, chrome yellow.
Asia, peach.
Beauty of Brentwood, purple.
Blushing Bride, blush white.
Centennial, crimson and maroon.
Charming Bride, white, tipped rose.
Claribel, rosy purple.
Constance, white.
Countess of Pembroke, soft lilac.
Darwin, rich crimson.
Dawn, copper color.
Edmund Weeksly, crimson and maroon, large.
Empress of India, dark maroon.
Glare of the Garden, bright scarlet.
Harry Freeman, white.
Honoria, amber.
Launcelot, orange.
Maid of Kent, crimson and white.
Mrs. Basham, soft yellow and pink.
Mrs. H. Carter, white and lilac.
Mrs. Keith, fawn and pink.
Oban, fawn.
St. Catherine, reddish amber.
Wm. Pearce, butter yellow.
Yellow A. W. Taft, yellow.
Zulu, dark velvety maroon.

Single Dahlias.

Assorted varieties, our selection.

Special Choice Mixed Dahlias.

Roots of our own growing, but of which we last season unfortunately lost the names. We are, however, sufficiently informed regarding them as to be probably able to select them without duplication and to give a good assortment of colors. This is a rare opportunity to secure a fine collection, as the varieties were those we selected from a list of nearly Five Hundred. The tubers being very large, we can *send only by express*. Per doz. 75c.; per hundred, $5.50.

All varieties at the uniform prices of 12c. each; $1.25 per dozen. Postpaid.

GLADIOLI

At the outset we wish to say that we are enthusiastic admirers of the Gladiolus. No other plant in the production of magnificent and peculiarly beautiful flowers, requiring so little care, can at all compare with this. The ease with which it can be grown, and its adaptability to nearly all soils, places it within the power of all to cultivate it. The range of colorings and markings is practically unlimited, and especially since the introduction of the New Hybrid Seedlings can the claim be made that the varieties are numberless.

While recommended by nearly all to be planted in various places in the garden for an effective display, it is not for this purpose that it is such a favorite with us, although there are many such places where it may be planted with a very striking and desirable effect; but as a cut flower for large vases we think it excels all others. If the spikes are cut when only the lower flowers are open, they will last for a week or more, the upper buds developing one by one into perfect blossoms. Then, too, the season of bloom may be made a long one if early and successive plantings are made. All in all, its ease of culture, certainty of success, range of color and lovely blendings and markings, its effectiveness in the garden, its greater desirability as a cut flower, and possible length of season of bloom, makes the Gladiolus worthy a place in every garden. It is such a favorite of ours that no words of praise would seem to us extravagant, and if space would permit we should feel inclined to say still more in regard to a more extensive planting of this lovely, well-known, but too little appreciated flower.

CULTURE.—Plant in full exposure to the sun. A light, moist soil one year from sod is the most desirable, but the Gladiolus thrives well in nearly all soils, the exception being a stiff, clayey one. While soil should be well enriched, avoid using fresh manure; use only that which is well rotted. Much the better way is to use land that was well manured the previous year, using none at the time of planting. If possible, avoid planting in the same place for three years. (See next page.)

GLADIOLI--Continued.

If space is limited, bulbs may be planted in double rows, four inches between the rows and two inches apart in the row; they are, however, more generally planted in single rows about one foot apart, two, three or four inches deep, according to size. The first planting may be made by the middle of April, and successive ones till the first of June, but for late planting the largest bulbs should be reserved.

Before the ground freezes dig up the bulbs, cut off the stalk closely and store in a cool, dry place. The old bulbs may be removed a few weeks later when convenient.

CHOICE NAMED VARIETIES.

Addison. Dark amaranth, with white stripes. 10c.

Africain. Darkest crimson black, with pure white blotch in throat. The darkest and one of the finest colors; large flower and spike. 10c.

Angele. White, showy and effective. 10c.

Aurore. Bright salmon rose, striped orange, carmine and rose, blotch cherry rose, streaked violet. 10c.

Brenchleyenis. Vermilion scarlet; fine old variety. 5c.

Chameleon. Compact truss of large, slaty lilac flowers, flamed orange, with white bands in centre of each petal, large creamy white blotch streaked violet. 10c.

Canary Bird. Fine yellow. 15c.

Conquete. Large and fine flower of bright cherry red, with conspicuous pure white blotch, upper petals striped with delicate rose. 10c.

Diamant. Fleshy white, of a remarkable freshness, throat ivory white; blotched and streaked carmine. 10c.

Fatma. Very large flowers of ivory white ground, profusely striped and suffused with bright rosy salmon; violet blotch. 10c.

Flamboyant. Large flowers, fiery scarlet. 10c.

Grand Rouge. Enormous spike and flower of perfect shape, intense scarlet, with small violet blotch in throat; the grandest of all scarlets. 10c.

Isaac Buchanan. Very fine yellow. 5c.

John Bull. White, slightly tinged with sulphur. 5c.

Lamarck (de). Cherry, slightly tinted with orange, blazed with red; very large pure white stain. 8c.

Madame de Vatry. French with purplish carmine blotch. 10c.

Madame Monneret. Delicate rose. 5c.

May. A lovely pure white flower, finely flaked, bright rosy crimson, superb spike. 8c.

Mr. Bains. A clear, light, red self color, very distinct. 10c.

Napoleon III. Bright scarlet, white line on each petal. 5c.

Octoroon. A beautiful salmon pink, very distinct. 10c.

Pepita. Bright golden yellow, slightly striped carmine at the edges of the petals toward end of the flowering season. 10c

Princess of Wales. White, flamed with carmine rose, deep carmine blotch. 10c.

Reine Blanche. Pure white, dark carmine blotch. 8c.

Romulus. Very brilliant dark red, pure white blotch, large white lines on lower petals. 8c.

Snow White. Absolutely pure snow white, the only pure white Gladiolus, large and well open; enormous spike of perfect shape. 20c.

Sylphide. Pure white, flamed carmine, extra large. 15c.

Van Spandonk. Fiery red, splendid. 10c.

For $1.00 bulbs of above may be selected amounting to $1.25.

The CHILDSI--Or Max Leichtlin Hybrids.

The introducer of this beautiful class says of it, "No novelty in floriculture has been introduced during the past ten years which equals in importance, magnificence, or value, this distinct new strain of Gladioli first produced by us in 1892. They far outrank all other Gladioli in size of spike, size of bloom, vigor, varied and magnificent coloring and freedom of bloom. They were produced by Max Leichtlin, of Germany, the most noted horticulturist in the world, and are the result of a careful cross between the finer varieties of Gandevensis and that lovely species, Saundersoni.

They are much stronger and more vigorous than others, the growth being exceedingly rank, and the foliage dark, healthy green. They are very tall and erect, often standing four or five feet high with spikes of bloom over two feet in length. They branch freely, in most cases each stem producing three or four spikes of bloom, and bloom much earlier than ordinary varieties."

Bowdoin. Very large flower, light orange scarlet, with large, pure white throat. Very exquisite.

Boston. Flaming orange scarlet, with large, pure white throat.

Columbia. Light orange scarlet, freely blotched and penciled with bluish purple. Throat freely marked and mottled.

Dr. Sellew. Large spike and very large flower, of great substance. Deep, rich rosy crimson, slightly penciled darker. Center of petals rayed with white. Throat pure white.

Ethel. Beautiful soft rose color, with white and crimson.

Henry Gillman. Deep salmon scarlet, with pure white bands through each petal, the throat showing peculiar mottling.

Livonia. Light red, with white mottled throat.

Little Blush. Dwarf habit, compact spike of blush white.

Mohonk. A strong, rank grower, flowers of large size and great substance. Deep dark pink, with spotted throat, shaded orange and flaked with maroon.

Nezinscott. Bright blood scarlet, with deep velvety crimson-black blotches and white mottling in the throat.

Old Oxford. Slaty crimson, heavily clouded with blue. Large crimson and white mottled throat.

Splendor. A splendid large flower, of the softest, sweetest rose color. Large magenta stains, with purple and white mottlings.

Sacramento. Deep, bright coral-scarlet, with white mottlings.

Torch-Light. Very large spike of large, light flaming scarlet flowers. Throat mottled and spotted white and violet.

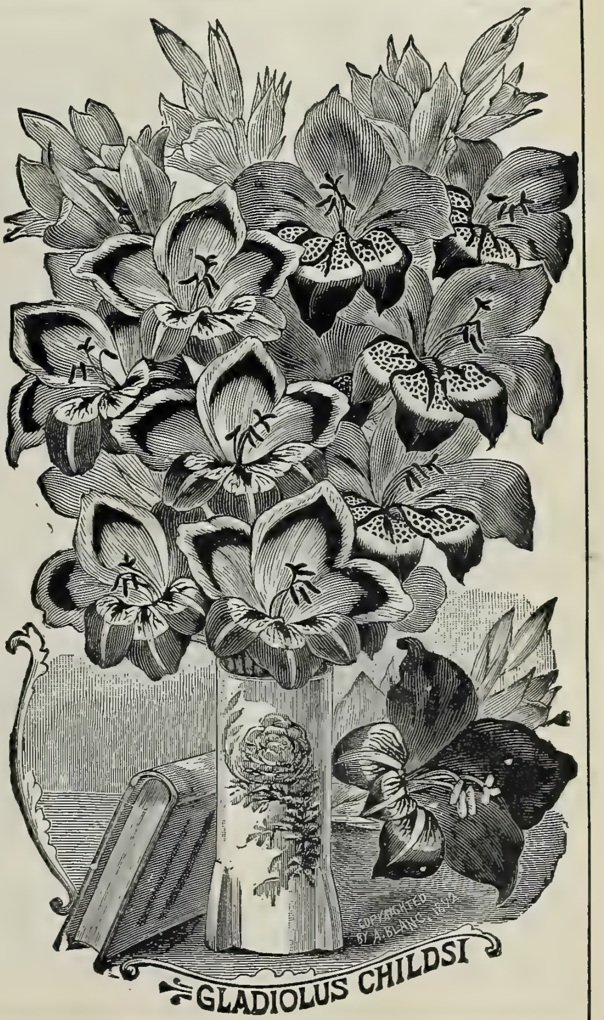
Wm. Falconer. Spike of great length and flowers of enormous size. Light pink and blush, delicate, freely mottled.

Each, 10c; 3 for 25c; dozen, 75c, postpaid.

GROFF'S HYBRID SEEDLINGS--Claimed to be the . . . Most Popular Strain in America.

The original introductions of Mr. Groff, awarded certificate of merit by the Society of American Florists, New York, in 1900.

Dozen, 50c; hundred, $3.00; postpaid.



GLADIOLI—Continued.

The Lemoine Hybrids

The flowers of this class, while not generally as large as of most others, are of rare beauty and great diversity of color, probably in the latter respect surpassing any other strain unless it be the Groff's Hybrids. We offer the leading varieties and a choice mixture.

Atlas.—Clear violet, large velvety maroon blotch.
Admiral Pierre.—Dark carmine-red, lower divisions clouded with purplish maroon, surrounded with light yellow.
Bajazet.—Lovely light pink, shading to delicate blush.
Bassuet.—Large; brilliant vermilion.
F. Bergman.—Large; orange-pink, white carmine stains.
Etendard.—Light brick red; with large yellow blotches.
Gambetta.—Dark amaranth-red. Exceedingly rich.
Cleopatra.—Red, carmine blotches, tinged with yellow.
Chas. Martel.—Rosy blush; intense large carmine blotch.
Decheville.—Salmon red, buff blotch.
Emilie Lemoine.—Bright vermilion, dotted gold.
Enfant de Nancy.—Purplish red, lower petals deep carmine color, and blotching entirely new.
Incendiary.—Fiery red, large blotch of crimson-red.
Lafayette.—Very large; yellowish salmon, crimson blotches.
La France.—Light salmon, velvety purple blotches.
Lamarck.—Salmon; crimson and yellow spots.
Lamartine.—Rosy flesh, with large, bright maroon blotch.
Marie Lemoine.—Long spike of fine, pale, creamy color, flushed salmon-lilac, spotted violet and yellow.
Mme. Lemoiner.—White, tinged with salmon.
Vashti.—Creamy white, blotched carmine.

Each, 6c.; 3 for 15c. Dozen, 50c. Postpaid.

◉ ◉ ◉ MIXTURES. ◉ ◉ ◉

BUFFALO MIXTURE. This is composed entirely of selected named varieties—Mr. Burbank's California Select, Mr. Gray's Ingleside Hybrids, and named Childsi. Doz. 75c.; hundred, $5.00. Postpaid.

CHILDSI MIXED. Bulbs first size and quality. Doz. 40c.; hundred, $2.75. Postpaid.

EXTRA FINE MIXED LEMOINE. A choice selection of varieties and of an exceedingly wide range of colorings. Doz. 35c.; hundred, $2.50. Postpaid.

OUR WORCESTER MIXTURE. This mixture, made by us, comprises all the different classes. It contains named varieties of each in white and light yellow, scarlet and variegated shades, the new Hybrids and choice seedlings; and for diversity, cannot be surpassed by any other of similar price, if, indeed, by any. All bulbs are strictly first size. By that we do not wish to convey the idea that all are equally large (as some of the choicest varieties never have large bulbs), but that they are of the first size of the different varieties. Doz. 50c.; hundred, $3.50. Postpaid.

OUR CHOICE MIXED. Many varieties. Bulbs first size. Doz. 30c.; hundred, $2.00.

OUR POPULAR MIXTURE. Bulbs good blooming size but not all strictly first size. Of an excellent range of colors and equal to many of the mixtures generally offered at much higher prices. Doz. 25c.; hundred, $1.50.

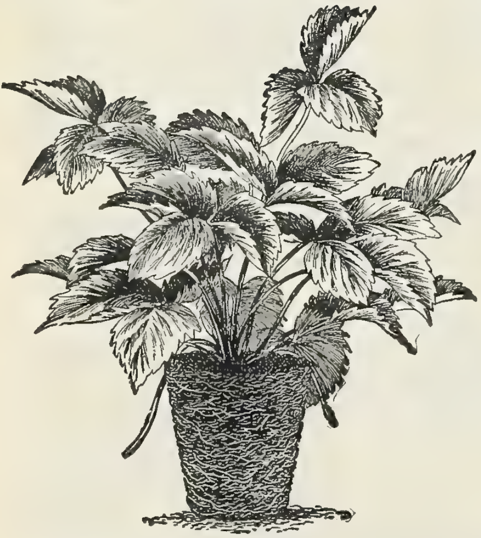
WHITE AND LIGHT VARIETIES, MIXED. Very choice and true to color. Doz. 35c.; hundred, $2.35. Postpaid.

All Gladioli sent postpaid at prices quoted. If desired sent with other articles by express, deduct 5c. per doz. or 25c. per hundred.

TUBE ROSE. (Excelsior Pearl.) The Excelsior strain of Double Tube Rose is of dwarf habit, and therefore it is not as necessary to stake it, as the tall.

Extra Large Bulbs. Each, 4c., 3 for 10c. Doz. 40c., postpaid.
Medium Size. Each, 3c., 4 for 10c. Doz. 25c., postpaid.

MADERIA VINE. A rapid, beautiful climber, with wax-like light green leaves and feathery, white flowers, with fragrance resembling Mignonette. Of easiest culture, simply needing planting when danger of frost is past and a trellis or string to run on. Each, 5c., 3 for 10c.; dozen; 35c.; postpaid.



Strawberry Plants. ... Home Grown ... Fresh from the Grounds.

We are prepared to furnish the following varieties of Strawberry Plants, all grown on our own grounds, and will be dug and packed carefully, so that there will not be the disappointment caused by sending West or South and getting plants that are dried up and nearly dead when they are set out. We have tested these and *know they are good.*

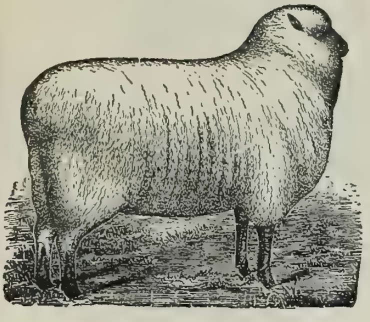
Brandywine (S.)—A large, late and handsome berry, conical form, dark, glossy red. Plant healthy, vigorous and productive.
Bubach (P.)—Of large and uniform size, regular in form and of good color. Plant remarkably vigorous and unsurpassed in productiveness. Probably more largely planted at present than any other variety.
Clyde (S).—Fruit large, firm and beautiful, of regular conical shape, never varying, and holds size to end of season. Color light scarlet. Considered by some good growers to be almost a perfect variety.
Glen Mary (S.)—A good sort for the kitchen garden. Berries conical, bright red, of fine flavor.
Talbot (P.)—Fruit large, bright crimson, and of fine flavor; very productive. Doz. 50c. 100, $1.50.
Seaford (S.)—A new sort, grown largely around Boston. Fruit large and handsome.
Marshall (S.)—Good to set with Talbot or other imperfect flowered varieties. One of the largest and finest kinds in cultivation.
Sample (P.)—One of the best market berries in cultivation. Fruit fine color and flavor.
Minute Man (P.)—One of the most valuable new sorts, continuing in bearing for an unusually long time. Fruit bright scarlet in color, very sweet. Per 100, $2.00. Per doz., 60c.

Varieties marked (S) have a perfect flower, and will fruit if planted alone. Those marked (P) are imperfect flower, and must be fertilized with some other perfect flowered sort.

Any of the above (except Minute Man) by mail, postpaid, Doz. 40c. 100, by express, 90c. Special price by the 1000. Pot Plants, in August, per 100, by express, $2.50.

Fertilizers and Chemicals

For the Farm, Lawn, Flower Garden or Greenhouse.



PULVERIZED SHEEP MANURE.

This is a pure, natural manure, and the most nutritious food for plants. Its effect is immediate, much more lasting and healthy than guano or any other manure. It is the best of all manures for mixing with the soil for greenhouse plants. It makes the richest, safest and quickest liquid manure, rivaling guano, without any deleterious effect. Instead of being put up in the natural state as formerly, we have it kiln-dried and then finally pulverized, which makes it much more convenient to handle, and it can be kept in any cellar for an indefinite length of time.

DIRECTIONS. For mixing with soil: Take one part manure to six of soil. For making a liquid: Take one pound of manure to five gallons of water. This can be used with safety every day.

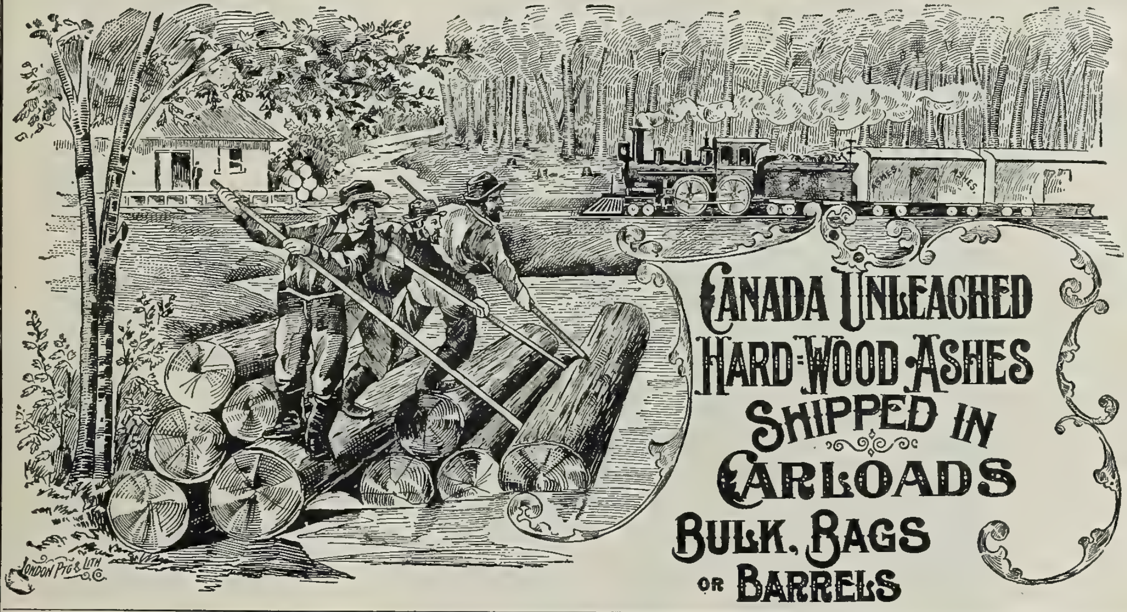
Prices. Ton, $25.00; 100 lbs. $1.75; 5 lbs. 25c. Special Price by the Car Lead.

CHEMICALS.

For those who want to buy chemicals and do their own mixing we are in a position to furnish at bottom prices. We sell usually in original packages, and analysis guaranteed. The following prices are subject to change without notice.

NITRATE OF SODA.	95 per cent purity.	Per 100 lbs. $2.50;	per ton, $46.00
MURIATE OF POTASH.	80 to 85 per cent.	Per 100 lbs. $2.50;	per ton, $44.00
SULPHATE OF POTASH.	50 to 55 per cent.	Per 100 lbs. $1.50;	per ton, $28.00
SULPHATE OF POTASH.	90 to 95 per cent.	Per 100 lbs. $2.75;	per ton, $47.00
SULPHATE OF AMMONIA.	25 per cent.	Per 100 lbs. $3.50;	per ton, $70.00
DIS. BONE BLACK.	15 per cent.	Per 100 lbs. $1.50;	per ton, $22.00
DRIED BLOOD.	12 to 15 per cent.	Per 100 lbs. $2.25;	per ton, $40.00
DRIED BLOOD.	15 to 18 per cent.	Per 100 lbs. $2.50;	per ton, $47.00
KAINIT.	12 to 13 per cent. actual Potash.	Per 100 lbs. $1.00;	per ton, $13.00
TANKAGE.	6 to 8 per cent Ammonia.	Per 100 lbs. $1.50;	per ton, $27.00
TANKAGE.	9 to 10 per cent.	Per 100 lbs. $2.00;	per ton, $34.00
PLAIN SUPERPHOSPHATE.	14 per cent.	Per 100 lbs. $1.00;	per ton, $17.00
PLAIN SUPERPHOSPHATE.	12 per cent.	Per 100 lbs. 90c.;	per ton, $14.00
SOUTH CAROLINA FLOATS.		Per 100 lbs. $1.00;	per ton, $16.00

Special Prices in Large Lots. Shipped from Boat.



CANADA HARDWOOD ASHES.

The main features of wood ashes are that they contain Potash, Phosphoric Acid and Lime, obtained from a source which places them naturally in the most soluble, and, therefore, the most available and acceptable form necessary for the plant. Potash and phosphoric acid are two of the mineral elements of plant food which are taken up by growing plants. We guarantee our Ashes and can furnish any quantity.

Price. Ton, $12.00; 100 lbs. $1.00.

Special Price in Car Lots.

PURE FINE GROUND BONE.

Ammonia 2 to 3%. Phosphoric Acid, 22%.

This Bone is fine ground, and we have placed our order for a large quantity, and are therefore in position to make very low prices.

Price per Ton, $27.00.

Worcester Lawn Dressing.

A well-kept lawn, be it small or large, adds greatly to the beauty of any home, and the demand for such is fast increasing, and our Worcester Lawn Dressing is especially designed for those who are looking for a rich, velvety lawn, and it is acknowledged as the standard food for lawns. It is a high grade, odorless fertilizer, made from chemicals, bone, ashes and sheep manure, and mixed in the right proportion to promote a vigorous and healthy growth throughout the season. It is clean and healthy, and far superior to unsightly and foul smelling stable dressing, which often contains a large quantity of foul seed which is very injurious to lawns.

Worcester Lawn Dressing is put up in 25, 50 and 100 lb. bags.

Price. 25 lbs. 60c.; 50 lbs. $1.15; 100 lbs. $2.00.

We are always willing to give advice to any one in regard to reseeding new lawns and tennis courts.

Walker's Excelsior Brand Plant Food.

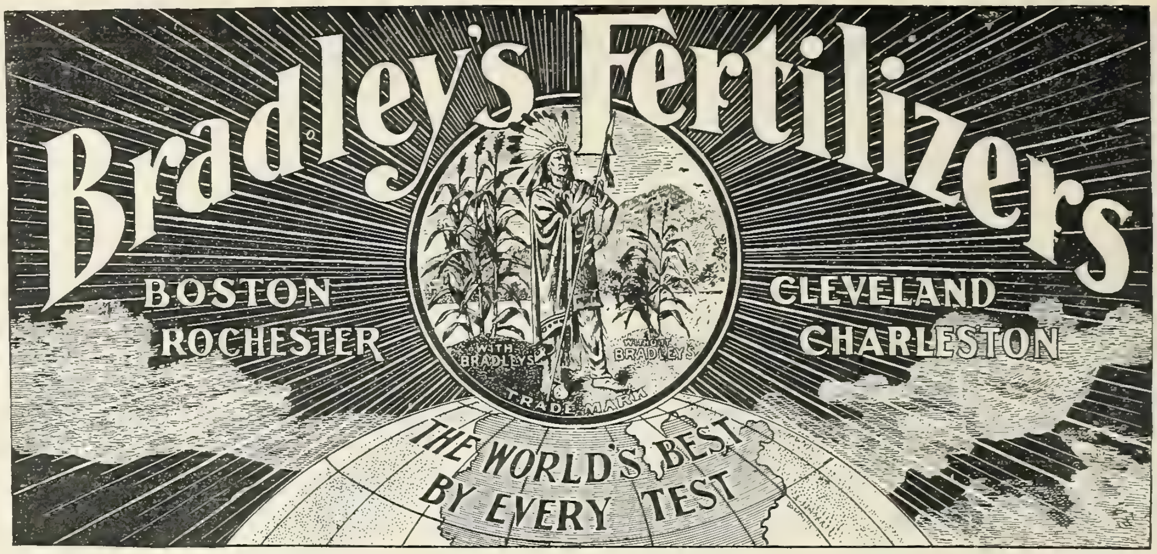
An odorless, concentrated, soluble fertilizer for house plants. Guaranteed analysis: Nitrogen, 7 per cent; available Phosphoric Acid, 12 per cent; Potash, K^2. O., 11 per cent.

Price. Small, 10c. Large, 25c.

"JADOO FIBRE."

A new material in which every plant thrives without earth. Suits all kinds of plants. As many as thirty different kinds of earth mixtures are required for successfully growing the different kinds of plants. "JADOO" Fibre does away with all of this.

Price. 100 lbs. $2.00; 25 lbs. $1.10; 5 lbs. 25c.



THE BRADLEY FERTILIZER COMPANY

was the pioneer of the fertilizer business, and for nearly half a century has been, and still is, the leader in that line, manufacturing and selling more fertilizers yearly than any other company in this field. They have not only the largest and best equipped factories, but the prestige of longest experience and most successful career, which has rendered their products a household theme from Maine to California, and has secured to them the familiar cognomen of the "OLD RELIABLE."

BRADLEY FERTILIZERS

are to-day, as they have been for nearly half a century, the cheapest, safest, and most reliable for you to buy.

BRADLEY QUALITY

Means Best Material, Most Thorough Manufacture, Perfect Mechanical Condition, Highest Agricultural Value.

THE WORLD'S BEST BY EVERY TEST."

BRADLEY'S XL PHOSPHATE

has been more extensively used than any other brand of fertilizer in the world, and has given universal satisfaction on all crops and under all conditions.

BRADLEY'S POTATO FERTILIZER

For Growing Smooth, Sound Potatoes of the Best Quality without Barnyard Manure.

It is admitted by successful potato growers that a good commercial fertilizer is indispensable in raising potatoes of the best quality and free from rot or scab. Bradley's Potato Fertilizer is in no sense a theoretical or experimental mixture. It is prepared from formulas which repeated field tests have proven to produce the largest crops of smooth, sound, and handsome potatoes. It is finely ground and very dry; it will, therefore, work perfectly in any planter.

BRADLEY'S COMPLETE MANURES FOR ALL CROPS

SPECIALLY ADAPTED TO EXTENSIVE FARMING AND MARKET GARDENING.

These manures are the richest and most effective fertilizers sold, as has been abundantly proved by results in the field. They are manufactured from the very best plant-food materials obtainable. In mechanical condition they are unequaled. They drill perfectly in any machine. They are divided into classes, based upon exhaustive field tests, and not upon theoretical experiments of the laboratory, the fault of "special crop fertilizers," in which common sense and practical experience are sacrificed for the sake of theoretical hobbies. Bradley's Complete Manures are, in the fullest sense, "complete" fertilizers, and the several grades furnish complete plant-food in the best forms for all crops grown.

Bradley's Complete Manure for Potatoes and Vegetables

Is particularly rich in ammonia and potash, and has given phenomenal results in growing large crops of the best quality of potatoes, onions, beets, turnips, carrots, cabbages, squashes, melons, etc. It is the most perfectly balanced fertilizer manufactured for growing all kinds of root crops and market garden truck. It is the market gardener's favorite.

ANALYSIS.

Nitrogen, equal to Ammonia, ...	4.00 to 5.00	per cent.
Available Phosphoric Acid, ...	8.00 to 11.00	"
Total Phosphoric Acid, ...	9.00 to 13.00	"
Potash (K_2O)	7.00 to 8.00	"
Equal to Sulphate Potash, ...	12.95 to 14.80	"

Bradley's Potato Fertilizer is one of our best known and most popular brands, having been found a sure producer of large crops of fine quality potatoes. It is finely ground, and its superior mechanical condition insures even distribution either by hand or in the potato planter.

ANALYSIS.

Nitrogen, equal to Ammonia, . . .	2.50 to 3.50	per cent.
Available Phosphoric Acid, ...	8.00 to 10.00	"
Total Phosphoric Acid, ...	9.00 to 12.00	"
Potash (K_2O)	3.00 to 4.00	"
Equal to Sulphate Potash, ...	5.55 to 7.40	"

Our Prices for 1903

Bradley's XL Phosphate, 25 lb. bag,	$ .60	Bradley's XL Phosphate, in 100 lb. bags, ton lots,	$32.00
Bradley's XL Phosphate, 50 lb. bag,	1.00	Bradley's Potato Fertilizer, in 100 lb. bags, ton lots,	30.00

Bradley's Complete Manures for Potatoes and Vegetables—Corn and Grain—Top Dressing and Grass and Grain—Bradley's Complete Manure with 10 per cent. Potash, in ton lots, $36.00. A liberal discount will be allowed for cash.

SPECIAL PRICES ON FIVE AND TEN TON LOTS.

DO YOU USE
Swift's Lowell Fertilizers?

SWIFT'S FERTILIZERS PRODUCE RESULTS AND RESULTS TALK!

Swift's Lowell Fertilizers differ from other kinds because they are wholly based on Rendering House products with needed chemicals added.

Absolutely free from injurious or inactive ingredients. They are natural fertilizers, returning to the soil in organic forms, the plant food removed by the crops, and are therefore one of the best substitutes for barn-yard manure.

Swift's Lowell Fertilizers contain Potash in the form of High Grade Sulphate. The results of Agricultural Experiment Stations all over the country confirm the superiority of fertilizers containing Sulphate of Potash for potatoes and fruits, while they are equally valuable for corn, grain or grass.

Swift's Lowell Animal Fertilizer.

A Complete Manure for all Crops.

Guaranteed Analysis.

	per cent.	
Ammonia	3	to 4
Total Phosphoric Acid	10	" 12
Insoluble " "	1	" 2
Available " "	9	" 10
Potash (K_2O)	4	" 5
Equiv. to Sulphate Potash	7.40	" 9.25

Price per ton $30.00

Swift's Lowell Potato Phosphate.

Guaranteed Analysis.

	per cent.	
Ammonia	3	to 4
Total Phosphoric Acid	9	" 12
Insoluble " "	1	" 2
Available " "	8	" 10
Potash (K_2O)	6	" 7
Equiv. to Sulphate Potash	11.12	" 12.95

Price per ton $33.00

Swift's Lowell Market Garden Manure.

Guaranteed Analysis.

	per cent.	
Ammonia	5	to 6
Total Phosphoric Acid	8	" 11
Insoluble " "	1	" 2
Available " "	7	" 9
Potash (K_2O)	6	" 7
Equiv. to Sulphate Potash	11.12	" 12.50

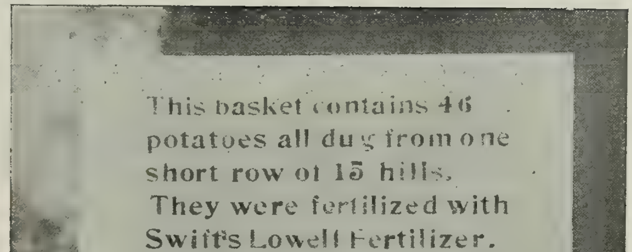
Price per ton $37.00

Swift's Lowell Fruit and Vine Fertilizer.

Guaranteed Analysis.

	per cent.	
Ammonia	4	to 5
Total Phosphoric Acid	8	" 11
Insoluble " "	1	" 2
Available ' "	7	" 9
Potash (K_2O)	6	" 7
Equiv. to Sulphate Potash	11.12	" 12.95

Price per ton $35.00


This basket contains 46
potatoes all dug from one
short row of 15 hills.
They were fertilized with
Swift's Lowell Fertilizer.
Ansel Stevens,
Westbrook, Me.

Swift's Lowell Lawn Dressing.

Guaranteed Analysis.

	per cent.	
Ammonia	5	to 6
Total Phosphoric Acid	8	" 11
Insoluble " "	1	" 2
Available " "	7	" 9
Potash (K_2O)	5	" 6
Equiv. to Sulphate Potash	9.25	" 11.12

Price per ton $38.00

Swift's Lowell Bone Fertilizer

For Corn and Grain.

Guaranteed Analysis.

	per cent	
Ammonia	2	to 3
Total Phosphoric Acid	9	" 12
Insoluble " "	1	" 2
Available " "	8	" 10
Potash (K_2O)	3	" 4
Equiv. to Sulphate Potash	5.55	" 7.40

Price per ton $28.00

Swift's Lowell Dissolved Bone and Potash.

Guaranteed Analysis.

	per cent.	
Ammonia	2	to 3
Total Phosphoric Acid	10	" 12
Insoluble " "	1	" 2
Available " "	9	" 10
Potash (K_2O)	2	" 3
Equiv. to Sulphate Potash	3.70	" 5.55

Price per ton $27.00

Swift's Lowell Potato Manure.

Guaranteed Analysis.

	per cent.	
Ammonia	2	to 3
Total Phosphoric Acid	8	" 11
Insoluble " "	1	" 2
Available " "	7	" 9
Potash (K_2O)	4	" 5
Equiv. to Sulphate Potash	7.40	" 9.25

Price per ton $28.00

Essex High Grade Fertilizers

Raise Good Crops.

* * *

THE **Essex Fertilizers** have as a basis the **Dry Fish** and **Fish Bone** produced by the Russia Cement Co. In the process of manufacture owned by this company, and which no other manufacturer can obtain, these ingredients are manipulated in a way which renders them especially available as plant food.

This accounts for the superior availability and crop producing power of the

Essex Fertilizers.

These superior qualities have been fully demonstrated in Worcester County and vicinity, and we call your attention to the following letters from well-known farmers and market gardeners who have tested the "Essex" in competition with the best of other leading brands.

Valley Farm, So. Lancaster, Mass., Oct. 8, 1902.

Russia Cement Co.

Dear Sirs:—The "Essex Fertilizer" used here has given good satisfaction. It has been used in the garden on nearly everything (with the exception of egg plant), and the results have been quite marked, both in growth and production. As a spring dressing for strawberries, it works well. I do not hesitate in saying, it is a good thing.

I remain, dear sirs, yours truly,

A. P. MEREDITH,
Gardener to Nathaniel Thayer, Esq.

Russia Cement Co.

Dear Sirs:—I have used the Essex Fertilizer for the past two years and find it to be as represented, giving perfect satisfaction.

JOS. T. CLARK,
with John E. Thayer, Esq.

So. Lincoln, July 17, 1902.

Dear Sirs:—This spring a party who bought two tons of Fertilizer of me, came to me and said it was the best fertilizer he ever used, and that this year he would buy all his fertilizer of me, provided I could use him as well as last year. At this writing, his crops look the best of any in town.

Yours truly,
F. E. COUSINS.

Uxbridge, Mass., Oct. 8, 1902.

Russia Cement Co.

Gentlemen:—I have used your Essex Fertilizer the past season on Corn, Potatoes, Grain and Hungarian, and it has given me fine results in every case. Where I used it alone without any stable manure the crops showed that there is plenty of plant food in an available form, giving to crops in a season like the past, plenty of food to produce the best results.

Yours truly,
E. S. FARNUM.

Essex A 1 Superphosphate.

Guaranteed Analysis.

Ammonia.	1¼	to	1½	per cent.
Available Phosphoric Acid,	7	to	8	"
Total Phosphoric Acid,	9	to	11	"
Actual Potash,	2	to	2½	"

Price per ton, $26.00.

Essex XXX Fish and Potash.

Guaranteed Analysis.

Nitrogen,	2.1	to	3	per cent.
Equivalent to Ammonia,	2½	to	3	"
Soluble Phosphoric Acid,	4½	to	5½	"
Reverted Phosphoric Acid,	4½	to	5	"
Insoluble Phosphoric Acid from Bone,	3	to	3½	"
Total Phosphoric Acid,	12	to	14	"
Actual Potash,	2¼	to	3¼	"

Price per ton, $30.00.

Essex Corn Fertilizer.

Guaranteed Analysis.

Nitrogen,	2	to	2.5	per cent.
Equivalent to Ammonia,	2.4	to	3	"
Soluble Phosphoric Acid,	4	to	5	"
Reverted Phosphoric Acid,	4.5	to	5	"
Insoluble Phosphoric Acid from Bone,	2	to	3	"
Total Phosphoric Acid,	10.5	to	13	"
Actual Potash,	3	to	3.5	"

Price per ton, $33.00.

Essex Market Garden and Potato Manure.

Guaranteed Analysis.

Nitrogen,	2	to	2.5	per cent.
Equivalent to Ammonia,	2.4	to	3	"
Soluble Phosphoric Acid,	4	to	5	"
Reverted Phosphoric Acid,	4	to	5	"
Insoluble Phosphoric Acid from Bone,	2	to	3	"
Total Phosphoric Acid,	10	to	13	"
Actual Potash,	5	to	6	"

Price per ton, $33.00.

Essex Complete Manure for Corn, Grain and Grass,

Guaranteed Analysis.

Nitrogen,	3.3	to	4.1	per cent.
Equivalent to Ammonia,	4	to	5	"
Soluble Phosphoric Acid,	3	to	3½	"
Reverted Phosphoric Acid,	4	to	4½	"
Insoluble Phosphoric Acid from Bone,	2½	to	3	"
Total Phosphoric Acid,	9½	to	11	"
Actual Potash,	9½	to	11	"

Price per ton, $38.00

Essex Complete Manure for Potatoes, Roots and Vegetables

Guaranteed Analysis.

Nitrogen,	3.7	to	4½	per cent.
Equivalent to Ammonia,	4½	to	5½	"
Soluble Phosphoric Acid,	3	to	3½	"
Reverted Phosphoric Acid,	4	to	4½	"
Insoluble Phosphoric Acid,	2	to	3	"
Total Phosphoric Acid,	9	to	11	"
Actual Potash from Sulphate,	8½	to	10	"

Price per ton, $39.00.

MAPES Complete Fertilizers.

The Choicest Materials are used in the Mapes Manures.

The basis of the Mapes Manures is pure bone. The other materials added are all of the *highest grade* and *best known forms* of plant-food, such as sulphate of ammonia, nitrate of soda, Peruvian guano, ground dried pure blood, dried pure flesh, soluble high grade potash, magnesia, etc., all *intimately* blended together, in fine mechanical condition, in the *proper proportions* and in the forms *best adapted* to meet the demands of the crops for which they are recommended.

All the phosphoric acid is from pure animal bone (not petrified) and Peruvian guano.

THE TWO LARGEST CROPS EVER GROWN WITH FERTILIZERS OR FARM MANURE WERE GROWN WITH THE MAPES POTATO MANURE IN THE GREAT NATIONAL PRIZE CONTEST.

"The largest crop ever grown with fertilizers or manure, 847½ bushels of Potatoes on one measured acre, with the Mapes Potato Manure, used alone, one-half ton per acre."

"The second largest crop ever grown with fertilizers, 745⅛ bushels on one measured acre, also grown with the Mapes Potato Manure."—From Official Report, in the *American Agriculturist*, on the National Potato Growing Contest.

$10,000.00 GUARANTEE.

That not one pound of Rock Phosphate is used in the manufacture of these Fertilizers. No other company will or can make any such guarantee, for they all use it as a basis for their goods.

Basis of Mapes is High Grade Bone.

Actual size potato from one bushel of Green Mountain potatoes (60 potatoes in a bushel) grown by J. Madison Reeve, Mattituck, L. I. (light sandy soil). Mr. Reeve had $377\frac{5}{60}$ bushels of large potatoes on one acre that he sold over the scales, and he still has left over 30 bushels of culls, which would make the total yield 407 bushels of potatoes on one acre. These potatoes were grown with the Mapes Manure, one ton to the acre. The seed was Maine seed. The potatoes were planted three feet apart.

Potato Manure. Ammonia, 4.50 to 5 per cent.; Phosphoric Acid, 8 to 10 per cent. (soluble and available, 8 per cent.); Soluble Potash, actual, 6 to 8 per cent., all as high grade Sulphate, and in forms free from Muriates (or Chlorides), Magnesia, Lime, etc. For Irish and Sweet Potatoes, also Asparagus, Early Vegetables, Tomatoes, Sugar Beets, Sorghum and Sugar Cane. **Per ton, $39.00**

Corn Manure. Ammonia, 3 50 to 5 per cent.; Phosphoric Acid, 12 to 13 per cent. (soluble and available, 8 to 10 per cent.); Soluble Potash, actual, 6 to 7 per cent. For Sweet Corn, Fodder Corn, Hungarian Grass, Millet, Late Turnips, Late Cabbage, Seeding to Grass. **Per ton, $35.00**

Complete Manure. (For general use.) Ammonia, 4 to 5 per cent.; Phosphoric Acid, 10 to 12 per cent. (soluble and available, 8 to 10 per cent.); Soluble Potash, actual, 4 to 5 per cent. A substitute for stable manure. For use on all crops and all soils, with or without stable manure. Use broadcast; if any in hills, use sparingly. Special for Oats, Hungarian Grass, Vegetables, Melons, Tomatoes and Seeding with or without grain. **Per ton, $37.00**

Economical Potato Manure. Ammonia, 4 to 5 per cent.; Phosphoric Acid, 6 to 8 per cent. (soluble and available, 4 to 5 per cent.); Soluble Potash, actual, 8 to 10 per cent.; all as high grade Sulphate and in forms free from Muriates (or Chlorides). **Per ton, $36.00**

Grass and Grain Spring Top-Dressing. Ammonia, 5 to 7 per cent.; Phosphoric Acid, 7 to 9 per cent. (soluble and available, 7 per cent.); Soluble Potash, actual, 5 to 7 per cent. **Per ton, $41.00**

Complete Manure. ("A" Brand.) Ammonia, 3 to 4 per cent.; Phosphoric Acid, 12 to 16 per cent. (soluble and available, 10 to 12 per cent.); Soluble Potash, actual, 2.50 to 3.50 per cent. For use in hill or drill on all crops, particularly in connection with farm manure. Special for Peas, Beans, Buckwheat and Turnips. **Per ton, $35.00**

Fruit and Vine Manure. Ammonia, 2 to 3 per cent.; Phosphoric Acid, 7 to 9 per cent. (soluble and available, 5 to 7 per cent.); Soluble Potash, actual, 10 to 12 per cent.; all as high grade Sulphate and in forms free from Muriates (or Chlorides). For insuring fruiting power, particularly in quality of fruits in vineyards (Grapes), Pears, Apples, Plums, Strawberries, and small fruits. Is slow in effects. **Per ton, $40.00**

Complete Manures for Light Soils, or Vegetable Manure for All Soils. Ammonia, 6 to 8 per cent.; Phosphoric Acid, 8 to 10 per cent. (soluble and available, 6 to 8 per cent.); Soluble Potash, actual, 6 to 8 per cent. This is our special manure on all kinds of soils, for Truck; Early Vegetables, Onions, Celery, Tomatoes; also on light soils for Oats, Hops and Barley. All vegetables require liberal supplies of soluble potash, and in the proper forms. Even with heavy or clay soils the natural supplies of potash are insufficient. **Per ton, $42.00**

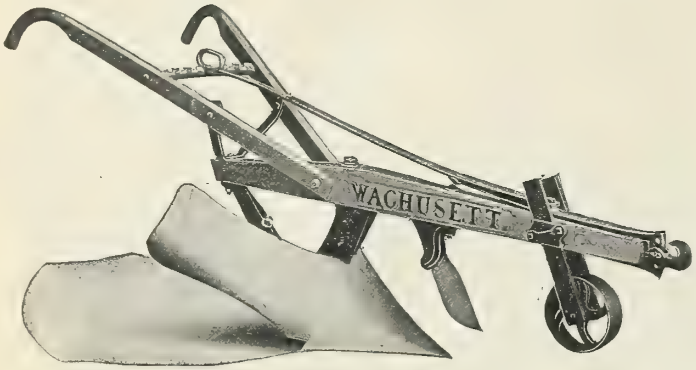
Cereal Brand. Ammonia, 2 to 3 per cent.; Phosphoric Acid, total, 8 to 10 per cent. (soluble and available, 6 to 8 per cent.); actual Potash, 3 to 3.50 per cent. For Corn, Rye, Buckwheat, etc. Specially adapted for use in hill or drill. **Per ton, $29.00**

Small lots $1.00 per ton extra. Two ton lots $1.00 per ton less.

We are Wholesale Agents for the above goods and can supply dealers at Factory Prices.

AGRICULTURAL TOOL DEPARTMENT

ON THE following pages we will show you our line of IMPLEMENTS, both Horse and Hand, and we do not illustrate anything that we have not tested and know to be thoroughly reliable; and while similar tools may be bought for less money, we defy anyone to sell goods of equal value any lower than we do.



The WACHUSETT Swivel Plow.

This is our latest and, we believe, for all kinds of work, the best Swivel Plow on the market. Nearly all other plows on the market at the present time have some defects, and we have been studying for the past few years to overcome them as far as possible, and we think we have accomplished our object in this plow.

We have them manufactured especially for us by a thoroughly reliable company, and we have endeavored to combine all the good points in other plows and discard all the bad ones. The handles are made adjustable, as you will see by the cut, and being attached to the beam instead of running down to the standard, they give the operator easy and perfect control over the plow. The shifting clevis is the most durable and easiest to operate of any plow that was ever put on the market. It can be shifted easy and there is no danger of pinching your fingers, as with nearly all of the other makes.

The lines on this plow are so adjusted that it stays in the ground and turns a nice furrow, and this makes it easy for both man and team. The material used is the very best that we can possibly get, and we warrant every part to be free from any imperfections.

We have also made the price lower than any of the first-class plows are being sold for We have, at the present time, only two sizes, No. 2 and No. 3. The No. 2 medium, or large two-horse, and the No. 3 is a light two-horse. We can furnish either with steel or hardened moldboard, and we guarantee them to do satisfactory work and to be made of the very best material.

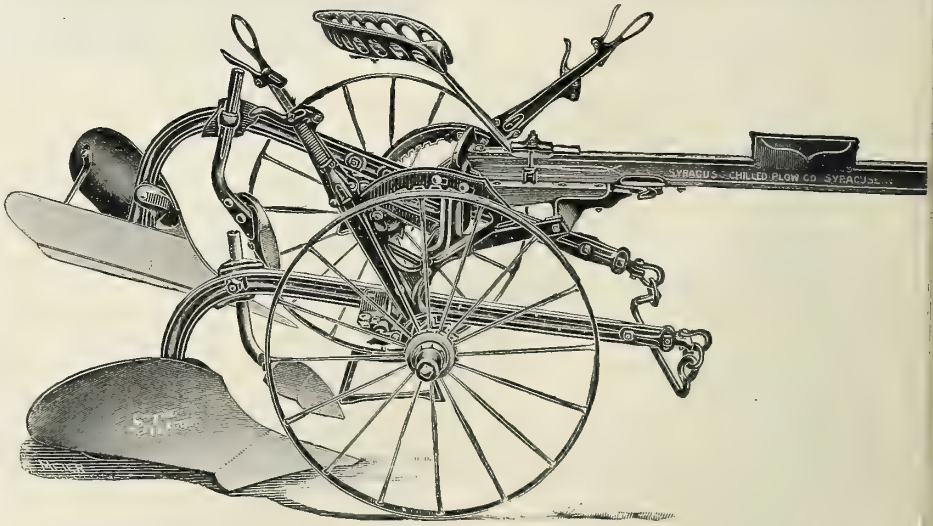
List price No. 2, Hardened Moldboard,	**$11.00.**	Discount for cash,	**$1.00.**
" " No. 3, " "	**11.00.**	" " "	**1.00.**

For Steel Moldboard add $1.50 extra.

Syracuse Reversible Sulky Plow.

Steel Moldboards and Landsides.

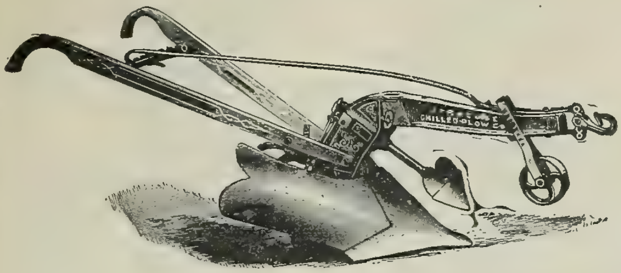
This is the lightest draft sulky plow on the market. Will plow on sidehill or level ground and leaves no dead furrows. We believe this is the only sulky that will do satisfactory work on all kinds of soil and on hill or level farms. As shown in cut two plows are used (one only being in use at a time). Throwing the plow in and out of the ground is done by the team while the operator has control of the width of furrow with his feet, leaving both hands free to handle the team. The wheels always stand perpendicular and the plows level. This tool is designed for New England farmers and has stood the test for ten years. We have sold hundreds of them. Cuts 3 to 9 in. deep, 11 to 16 in. wide; weight, 556 lbs. We furnish two sets of points and two-horse hitch.


SYRACUSE CHILLED PLOW CO SYRACUSE

Price, $45.00. Discount for cash, $3.00. Three-horse hitch, $3.00 extra.

Syracuse No. 60 Plow,

With Steel Cutter or Jointer, Steel or Chilled Moldboard.



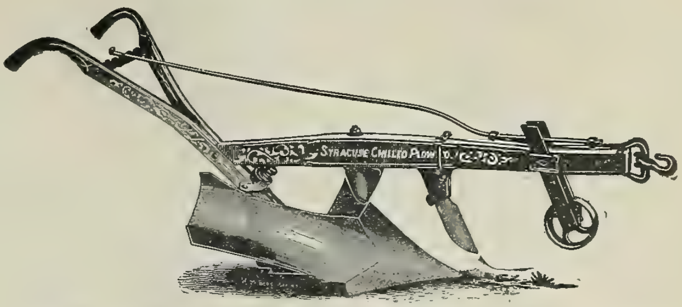
This is our leading Steel Beam swivel plow and will work on level land or sidehill. It has a steel or chilled moldboard, patent foot latch and shifting clevis. Cuts 5 to 8 in. deep, 12 to 15 in. wide; weight, 138 lbs.

List Price, Steel Moldboard, . .	**$17.00**
List Price, Cast Moldboard, . .	**15.50**

Discount for cash, $2.00.

Diamond A, B and C Plows,

With Wood Beam, Steel or Chilled Moldboard.

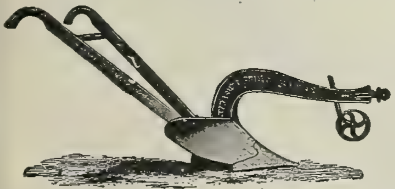

SYRACUSE CHILLED PLOW CO.

Excepting the Wachusett this is one of our best swivel plows. It is furnished with steel or chilled moldboard, patent foot latch, wheel and cutter and shifting clevis. All parts interchange with the '76 plow made at Castleton, Vt.

A cuts 5 to 7 in., 11 to 14 in. wide; wt., 119 lbs.	**List price, $13.00**
B cuts 4 to 6 in., 8 to 12 in. wide; wt., 114 lbs.	**List price, 12.00**
C cuts 3 to 5 in., 7 to 8 in. wide; wt., 71 lbs.	**List price, 8.50**

A and B are two-horse; C one-horse. A and B have wheel and cutter. C has wheel. Disct. for cash on A and B, $2.00; C, $1.00. Steel Moldboard, $1.50 extra.

Syracuse No. 5 Vineyard Plow
One-Horse.



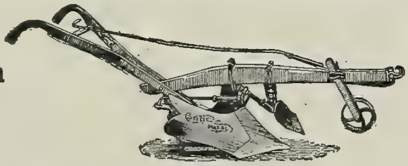
This plow is designed for plowing between rows of trees or vines. The handles are adjustable sideways or up and down. The horse can walk in the furrow or on the land. It can also be used for garden plowing. Iron beam; cuts 3 to 5 in. deep, 7 to 10 in. wide; wt., 63 lbs.

List price, with wheel, $7.50.

Discount for cash, 50c.

The Arlington Plow has become a favorite in many sections. They are made with steel shifting lever, clevis, patent spring foot latch. Moldboards are made of patent steeled metal, and all castings nicely polished. The beam and handles are made from selected stock, neatly striped and varnished.

The Arlington Swivel Plow.



—— DESCRIPTION OF SIZES.——

No. 30 turns a furrow 13 to 16 in. wide, 6 to 8 in. deep. Weight, 135 lbs.

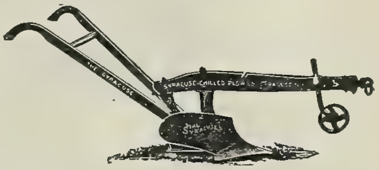
No. 29 turns a furrow 12 to 14 in. wide, 5 to 7 in. deep. Weight, 125 lbs.

No. 27 turns a furrow 8 to 11 in. wide, 4 to 6 in. deep. Weight, 85 lbs.

No.	With Wheel.	Wheel and Cutter.	Wheel and Jointer.
30	$13.50	$15.00	$15.50
29	12.50	14.00	14.50
27	9.00	10.00	
26	8.50	9.50	

Discount for cash, $2.00 on Nos. 30 and 29; $1.00 on Nos. 27 and 26.

Syracuse No. 52 and 53
One-horse Plow.



No. 52 is a medium size one-horse plow, with chilled moldboard and wheel just the size for general garden work.

No. 53 is same style of plow, only larger. Can be used as a light two-horse plow for plowing stubble land.

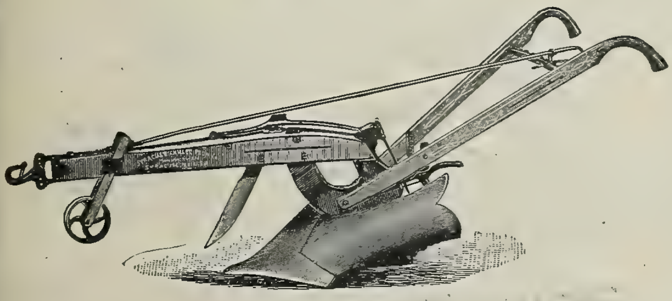
No. 52 cuts 3 to 5½ in. deep, 9 to 11 in. wide; wt., 70 lbs. **List price, with wheel, $8.50.**

No. 53 cuts 3 to 6 in. deep, 9 to 12 in. wide; wt., 76 lbs. **List price, with wheel, $9.50.**

Discount for cash on either, 50c.

Syracuse No. 69 Plow,

With Wheel, Wood Beam.

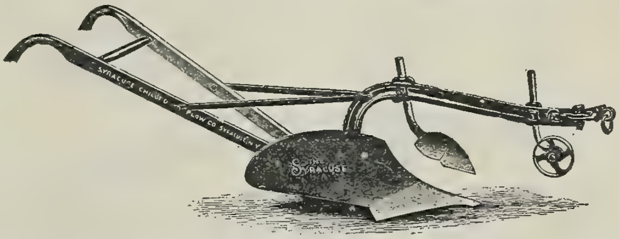


This plow is similar to the No. 60 excepting the beam, which is made of two pieces of wood, and has chilled moldboard, either cutter or jointer, wheel and shifting clevis. Cuts 4 to 6 in. deep, 10 to 14 in. wide; wt., 130 lbs.

List Price, - $15.50.

Discount for cash, $2.00.

Syracuse No. 31 and No. 32 Two-horse Landside Plows.


SYRACUSE CHILLED PLOW CO. SYRACUSE N.Y.
SYRACUSE

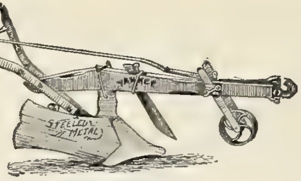
These plows have steel moldboards and wheels, straight cutters or jointers. No. 32 is the same plow used on the double sulky with the addition of a pair of handles, and no better plow was ever made.

No. 32 cuts 5 to 7½ in. deep, 10 to 13 in. wide; weight, 103 lbs. **List Price, $16.00.**

No. 31 cuts 5 to 8 in. deep, 12 to 15 in. wide; weight, 108 lbs. **List Price, $16.50.**

Discount for cash from either of the above, $3.00.

THE YANKEE SWIVEL PLOW.



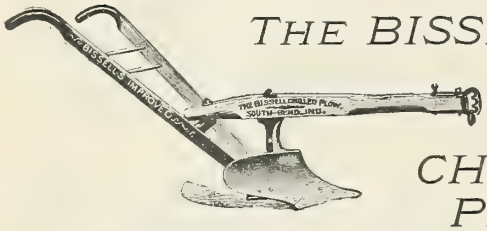
FOR ONE OR TWO HORSES.

This plow has a patent shifting clevis, foot latch, wheel and cutter. The moldboard is steeled metal, which is very hard and will polish in nearly all soils. They are painted bright vermilion and are a very nice built plow. We have two sizes for one horse, three for two horses, and one for three horses.

Number of Plow.	Description.	With Wheel.	Wheel & Cutter.	Weight full Rig.
00 H	Small One-Horse, ...	$ 9.25	$10.25	75 lbs.
0 H	One-Horse, ...	9.50	10.50	85 "
1 H	Large 1-horse or light 2-horse,	12.00	13.50	105 "
2 H	Medium 2-horse, ...		15.00	117 "
3 H	Large 2-horse, ...		16.00	125 "

Discount for cash: $2.00 from list on two-horse; $1.00 discount on one-horse.

THE BISSELL CHILLED PLOW.



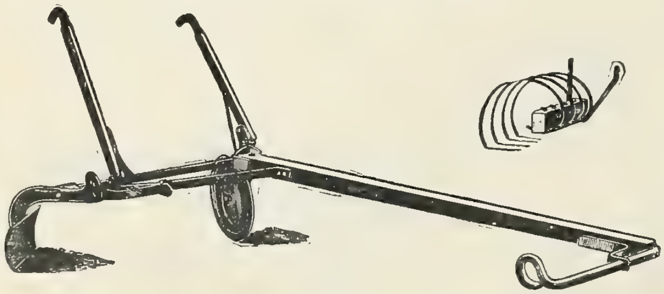
All parts interchange with the Oliver. This plow has a chilled moldboard, extra high standard, which prevents clogging in weeds or trash. It is our best one-horse landside plow.

Number.	Description.	List Price.
No. A.	Light one-horse, . .	$4.50
No. B.	Medium one-horse, . .	6.00
No. 10.	Large one-horse, . .	7.00

Discount for cash, 50 cents.

The above prices are without wheel. If wheel is wanted, add $1.00 net to above prices.

GRAPE HOE.

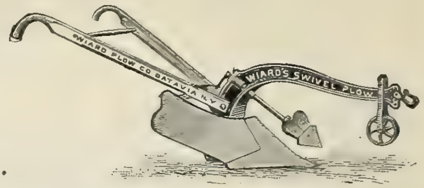


A GREAT LABOR SAVER.

A very useful Horse Hoe to use in vineyards and orchards; will pay for itself in one season; a great labor saver. Can be used with one horse; adjustable to any width of row. A great labor saver in grapes and berries; can be used when the foliage is on and when it is impossible to use any other tool. Highly recommended by Amherst College.

Price, as shown in cut, $17.00; without cultivator attachment, $12.00. Discount for cash, $1.00.

THE WIARD SWIVEL PLOWS.

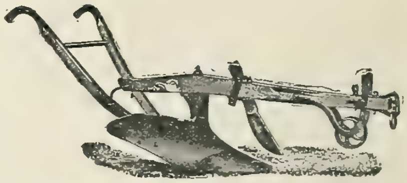

WIARD PLOW CO BATAVIA N.Y.
WIARD'S SWIVEL PLOW

We carry a full line of these plows and they have a great many friends. Rigged either with Jointer or Straight Cutter and Wheel, steel and wood beam and shifting clevis. They are painted green.

Number.	Description.		Wheel and Cutter or Jointer.	Weight full Rigged.
115x	Light 2-horse, iron beam, cast moldboard,		$15.25	116 lbs.
140	Medium 2-horse, wood beam, cast moldboard, ...		14.25	133 lbs.
		Plain.	Wheel.	
21	One-horse, wood beam. . .	$8.25	$9.25	77 lbs.

Discount for cash: $2.00 from list on two-horse; $1.00 discount on one-horse. Steel Moldboard, $1.50 extra.

THE DOE CAST IRON PLOW.

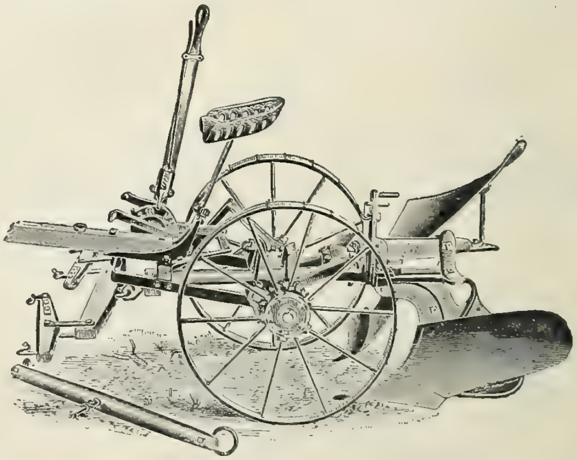


A good general purpose plow, designed for all kinds of garden work. Wood beam, cast moldboard and point.

		Plain.	Wheel and Cutter.
E 0	Medium one-horse, .	$5.00	
E 1	Large one-horse, . . .	6.00	
E 2	Light two-horse, . . .	7.00	
E 3	Medium two-horse, . . .	8.00	$10.75
E 4	Two or three-horse, . .	10.00	12.75

Discount for cash, 50 cents from list.

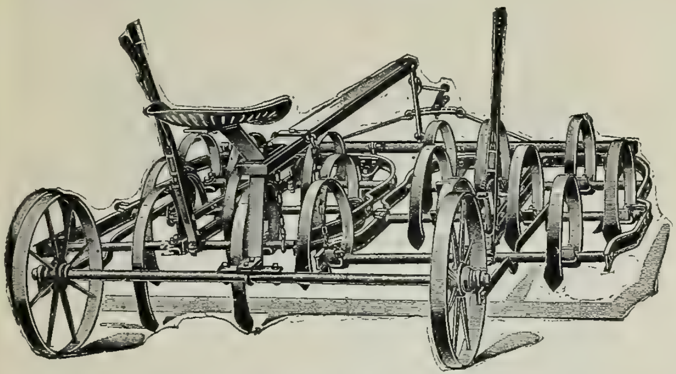
THE NATIONAL REVERSIBLE SULKY PLOW.



This plow works equally well on sidehill or level land. As with the Syracuse, two plows are used, both fastened to one beam. The plows are thrown in and out of the ground with the foot, making it a very easy plow to operate. A boy 12 years old can handle it easily. There are few farms in New England where a Sulky plow cannot be used to a good advantage. Price includes extra set of points, neck-yoke and evener.

List price, $45.00. Discount for cash, $3.00.

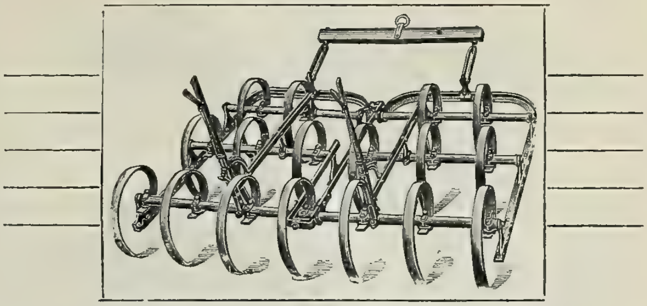
The American ...Riding... Spring Tooth Harrow.



The American Spring Tooth Harrow is the latest spring harrow on the market and, we believe, the best. It is constructed on entirely different principles from other harrrows—with seat, and the driver does not get any motion of the harrow. The riding attachment is independent of the frame, the driver's weight being on the sulky attachment instead of on the frame that the teeth are attached to, as is the case with other harrows. It is as easy to ride as a buggy, and the teeth can be raised and lowered by means of a lever within easy reach of the driver. It is simple, durable, and the most practical harrow on the market.

Price, 16 teeth, complete with riding attachment, **$21.00.**
Discount for cash, $1.00.

The Aberdeen Spring Tooth ...Lever... Harrow.

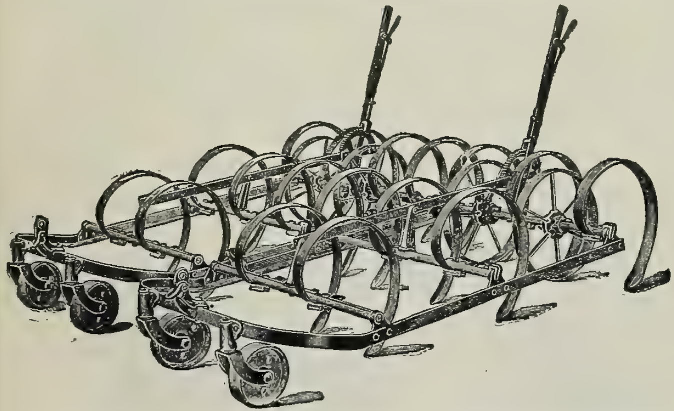


Having some calls for a spring harrow with shoes instead of wheels, we have added to our already large line of harrows this make, and while it has to be hauled to and from the field on the shoes instead of wheels, we believe it will do just as good work and is as durable as any harrow on our list.

List Price. 15 teeth, $17.00.
" " 17 " $18.00.

Discount for cash, $1.00.

The Bay State Spring Tooth Harrow.

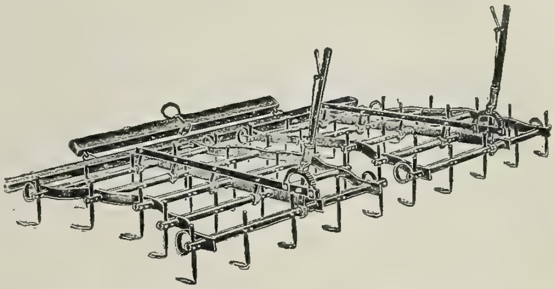


This harrow has all the good points of other low down spring harrows and a great many improvements. The frame is made of channel steel, making it very rigid. The teeth are held in place by two bolts. Excepting the American this is the best Spring Harrow on the market, being made entirely of steel.

This harrow is furnished with seat if desired.

List Price, 15 teeth, $18.00. **List Price, 17 teeth, $19.00.**
Discount for cash, $1.00. Seat attachment, $1.50 extra.

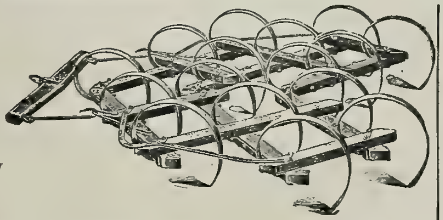
Big 5 Spike Tooth Smoothing Harrow.



This harrow is designed as a leveling harrow, and for covering all kinds of grain and grass seed. Is also used largely for cultivating corn just after it comes up. The teeth are adjusted by means of a lever, and can also be thrown up from the ground and harrow transported to and from the field on the shoes at the end. Each tooth is held in place by two bolts (nearly all others have but one), and the entire harrow is made of steel.

List price, 60 teeth, $12.00. Discount for cash, $1.00.
List price, 50 teeth, $11.00. Discount for cash. $.100.

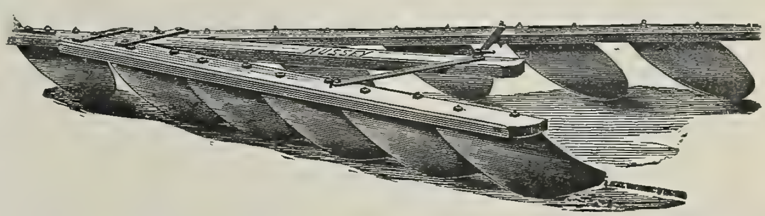
The Original PERRY Spring Harrow



This is the first Spring Tooth Harrow ever offered for sale, and it has many friends today. For durability, it is equal to any harrow made. The wood frame is lined with carbon steel, bolt heads protected, teeth cannot get loose.

List price, 16 teeth, $11.00. Discount for cash, $1.00.

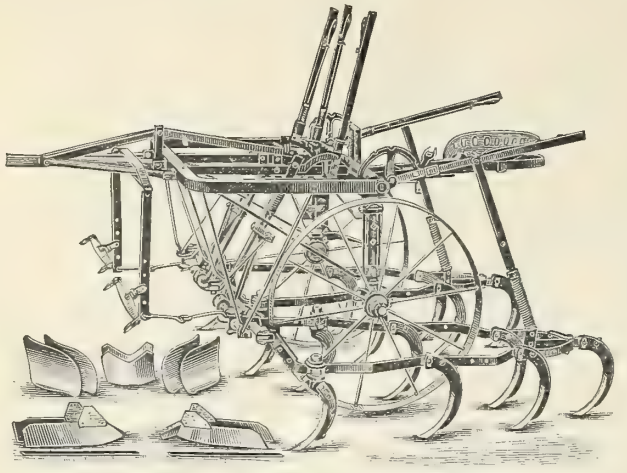
SHARE'S Steel Tooth Harrow.



This is a good cheap harrow, used for one or two horses. Teeth are made of pressed steel and always hold their shape.

List price: Share's Patent A Harrow, 7 teeth, **$8.00;** 9 teeth, **$9.00;** 11 teeth, **$10.00;** 13 teeth, **$11.00.** Discount for cash, 50c.

Planet Jr. No. 72, Riding Cultivator.



NO. 72 PLANET JR. TWO=ROW PIVOT WHEEL CULTIVATOR, PLOW, FURROWER AND RIDGER.

With Lever Adjustable Gangs, Price, $50.00. Weight, packed 560 lbs.
Liberal Discount for Cash.

Think of the saving made in cultivating perfectly two rows of potatoes, beans or corn or any crop planted in rows not over 44 inches apart, at a single passage. This means double speed at single cost, and the arrangement of the fourteen teeth is such that all the ground is well tilled and **no open furrows** are left next to the crop.

The center lever operates the hinged tongue, regulating the depth of the front teeth to a nicety and levelling up the machine to suit all heights of neck-yoke. The outside levers regulate the depth of the teeth in the rear, while the intermediate levers are those used in changing the width of gangs.

NO. 71 PLANET JR.

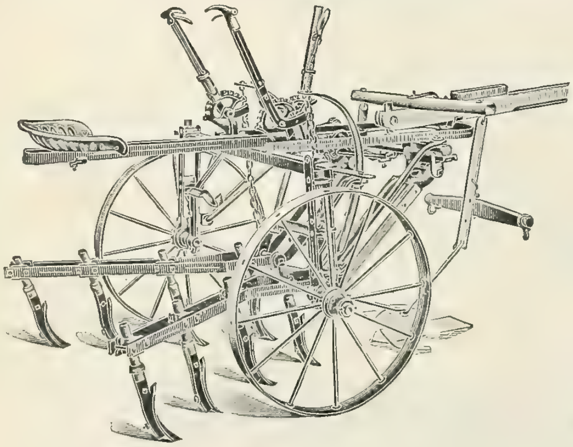
IMPROVED TWO=ROW PIVOT WHEEL CULTIVATOR, PLOW, FURROWER AND RIDGER.

Price, $45.00. Packed weight, 530 lbs.

Like No. 72 it has seven teeth on a side, and also four plows and two furrowing shovels, and the frames adjust for all rows from 28 to 48 inches. The wheels adjust from 28 to 42 inches; the wheels are also pivoted like No. 72 and steer the tool with the greatest ease.

It has adjustable seat, adjustable tongue and the front standards are adjustable, up, down and sideways; it has adjustable plant guards, and the depth of work is readily arranged by levers both front and back. The hitch is also adjustable; all like No. 72. In fact it is identical with No. 72, except that instead of the opening and closing of the frames by means of levers while in motion, it is done by loosening two bolts, setting the frame as wanted and then tightening up again. **Liberal Discount for Cash. Write for large Catalogue.**

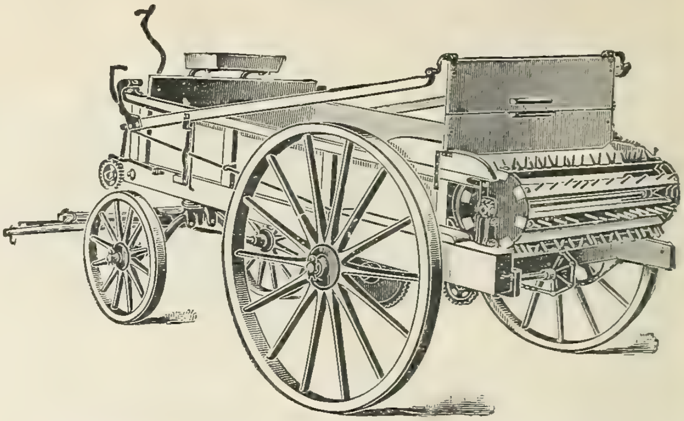
The Standard Pivot Axle Riding Cultivator.



This is a powerful tool and so constructed that it is capable of doing a large range of work, and is very handy for cultivating all crops planted in rows. The pivot axle is very handy on side hills for holding the tool up to its place. Extra teeth may be added which makes it into a riding harrow. The wheels may be adjusted in width from 38 to 54 inches for different width rows.

List Price, $30.00. Discount for Cash, $2.00

The Twentieth Century .. Manure Spreader.



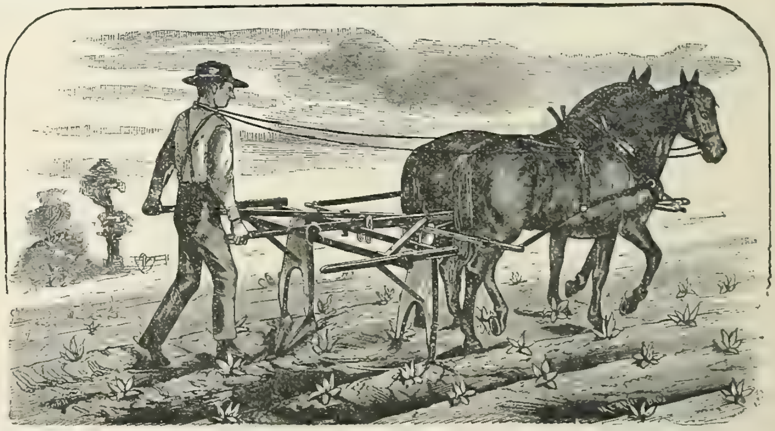
Mr. Kemp's latest invention, and the best Spreader on the market at the present time. The original tight-box Spreader, and the only machine that will sow commercial fertilizers, ashes, chemicals, lime, etc. The beater device is far ahead of other makes. Strength is placed where it is needed. Easiest to operate. Change of feed done with the foot. Not room here to mention all of its good qualities, but write for complete catalogue. It will convince you that if you are in the market for a Spreader you will buy this one.

Made in three sizes:

***A—30**	**Bushels,**	**Price,**	**$110.00**
B—40	**"**	**"**	**115.00**
C—50	**"**	**"**	**120.00**

*The "A" is the only size made by other manufacturers.

Prout's Two-Horse Hoe.



To those unacquainted a brief description of this machine will undoubtedly prove of interest. Each Standard as shown in the cut has two Hoes attached, and in working one set of Hoes work on one side of the hill and the other set on the opposite side, hoeing a row at a time. The Hoes operate same as a Hand Hoe, moving fresh earth to the plant, and crowding the old dry earth away from the plant, the work being done much more quickly and thoroughly than when Hand Hoes are used.

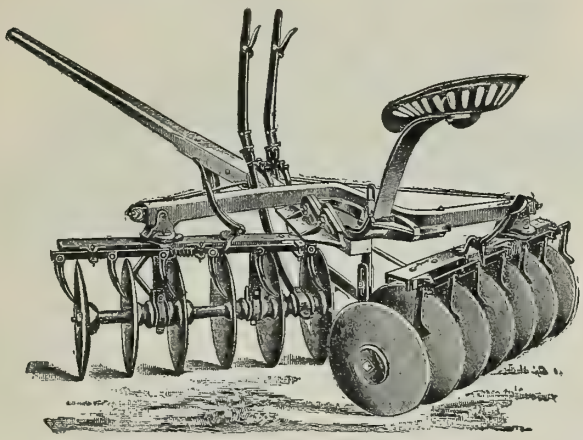
Unlike the Cultivators and Horse Hoes now in common use, *the whole surface* for the distance of two feet, more or less, on each side of the plant is cut over, and all the weeds are removed. The Hoes being made tapering permit of cutting close up to the plant without injury to corn roots which run close to the surface.

This feature of all others should bring this tool before the attention of all growers of corn and tobacco, as it is pre-eminently the one tool of all others especially adapted to their cultivation.

List Price, with Wheels, $27.00; discount for cash, $3.00
" " no " 25.00; " " " 3.00

The Victor OVER-LAP DISC HARROW.

With Ball-Bearings. **13 16 in. Steel Discs.**

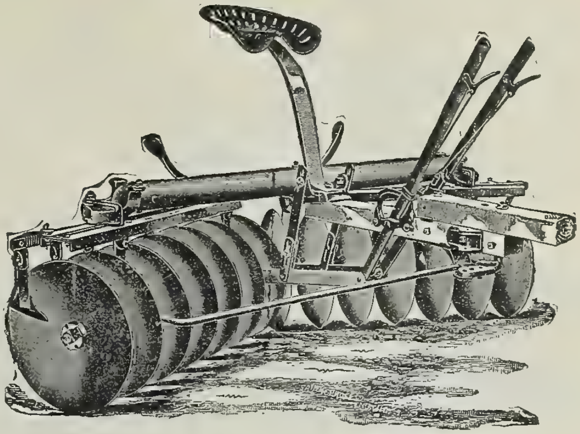


This is the latest and best thing for a Disc Harrow. As shown in the cut you will see that the right-hand gang has 7 discs instead of 6; the extra one laps over and pulverizes the centre, which all other harrows leave untouched. This has been a great disadvantage and has puzzled all manufacturers until now. It runs on ball-bearings, is made entirely of steel, and is furnished with whiffletrees, evener and yoke.

List price, $24.00 Discount for cash, $1.00.

The Reliable DISC HARROW.

12 16 in. Steel Discs.

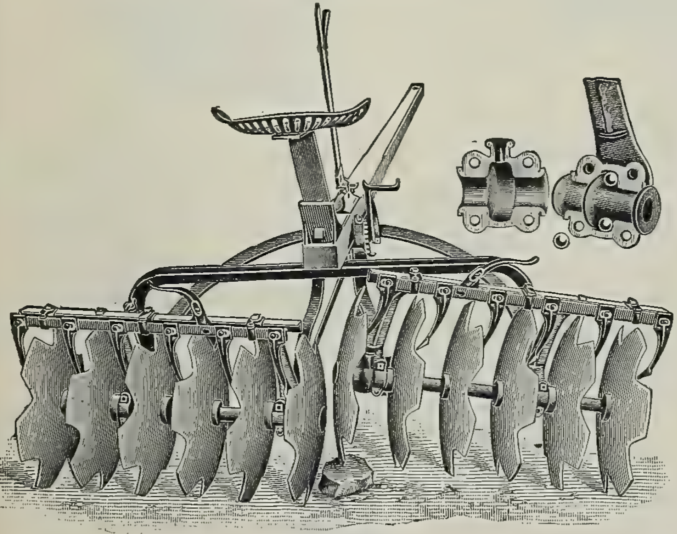


This harrow is everything the name implies—perfectly reliable. It is made expressly for us, and as we buy them in CAR LOTS we are able to sell them at a much lower price than this grade of harrows are sold for. It runs on ball-bearings, has two levers for angling the discs (a great advantage on side hills). It is made, excepting the pole, entirely of steel, and we furnish at price quoted whiffletree, evener, scrapers and yoke.

List price, $21.00. Discount for cash, $1.00.

All Steel Cutout Harrow

12 16 in. Steel Discs.

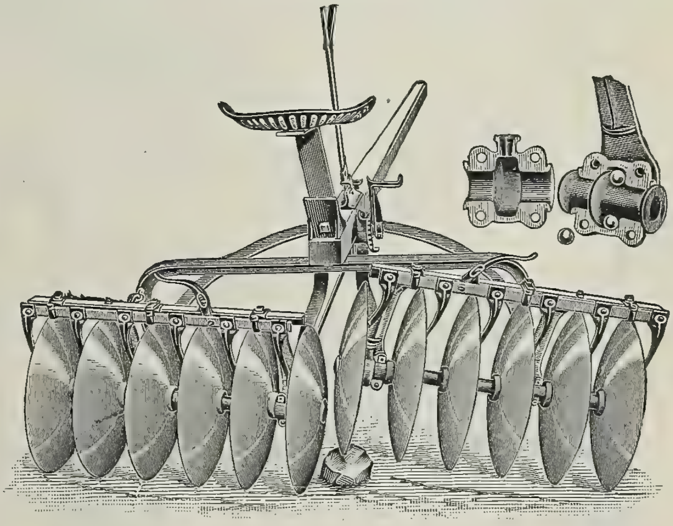


This harrow is same construction as the All Steel Flexible, but fitted with cutaway instead of round discs which, being cut in, allows them to enter the ground deeper, and is a very desirable harrow to work in bushy land. It is fitted with ball-bearings and, excepting the pole, is made entirely of steel; has the adjustable spring for putting any amount of pressure on the inside end of the discs. No other Cutaway Harrow made has this improvement. Arbors run on ball bearings.

List price, $22.00 Discount for cash, $1.00.

ALL STEEL Flexible Disc Harrow.

12 ·16 in. Steel Discs.

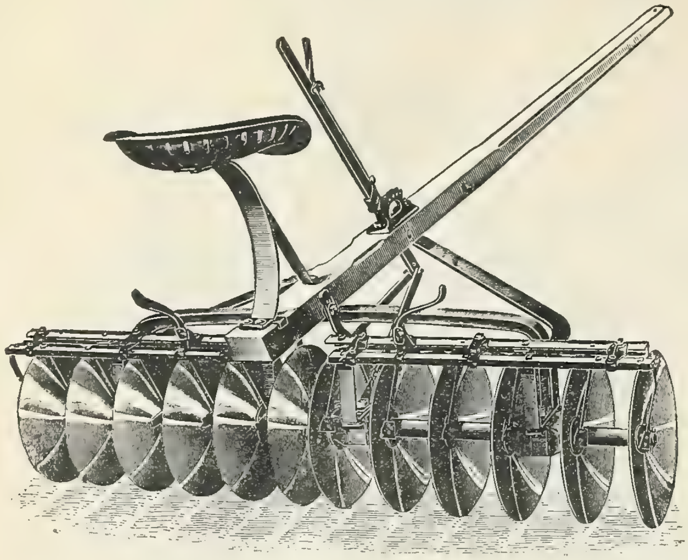


This harrow is provided with matchless new combination cone boxes and single large ball-bearings. The only Disc Harrow having independent adjustable spring pressure upon the inner end of each gang of discs, allowing any amount of pressure to be thrown upon the inner ends of the gangs by the foot of the operator. This is the simplest and easiest harrow to operate on the market. By removing two bolts it can be taken apart and handled easily by one man.

List price, $22.00. Discount for cash, $1.00.

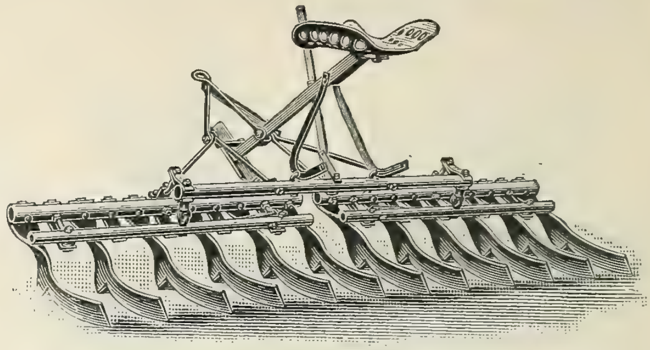
THE STERLING DISC HARROW.

The Best Low Priced Disc Harrow on the Market.



Has 12 16-in. steel discs running on ball bearings. This Harrow, as you will see, is similar to the All Steel Flexible shown on another page, the principal difference being in the flexible part. This harrow does not have the patent foot lever and long spring, but all other parts are equally as good, and we offer it at a price that places it within the reach of all. Complete with whiffletree, evener, yoke and scraper, **$20.00.** Discount for cash, $1.00.

The "Acme" Pulverizing Harrow, Clod Crusher and Leveller.



"Acme" Harrow. The Best General Purpose Harrow.

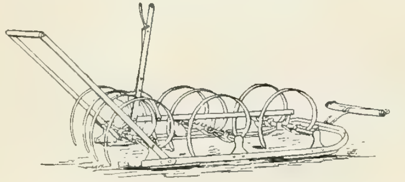
A general purpose harrow that will crush, cut, lift, turn, smooth and level the soil to perfection, all in one operation. While pre-eminently adapted for heavy, stubborn land, it can be adjusted, by means of the levers and runners, to do perfect work on the lightest soil. It cuts the entire surface without disturbing sod or trash that has been turned under by the plow. It prepares a perfect seed bed, and also covers seed in the best manner. The draft is reduced to a minimum. Being made entirely of cast steel and wrought iron, it is practically indestructible. Nothing but the coulters can possibly wear, and these are readily replaced at a trifling cost.

PRICES AND SIZES:

No. 17. Riding Harrow. Two-horse size. 6½ foot cut, with 2 runners for transporting. List price, **$17.00.**

No. 23. Similar to the No. 17, only made in two sections. List price, **$18.00.**

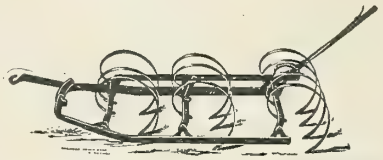
The Badger One-Horse Spring Tooth Harrow and Cultivator.



This is one of the handiest tools a farmer can have. It will do work equally as well as a two-horse harrow, having the same teeth, only a trifle smaller. We offer this harrow at a very low price.

Price, **$10.00.** Discount for Cash, 50 cents.

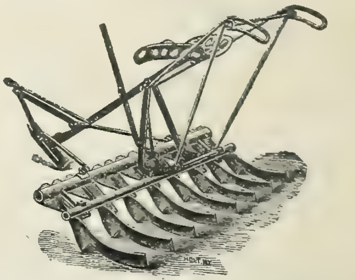
The Syracuse One Horse Spring Harrow.



We have sold this harrow for the past four seasons and it has given perfect satisfaction. It has ten spring teeth, oil tempered, and is adapted for all kinds of work.

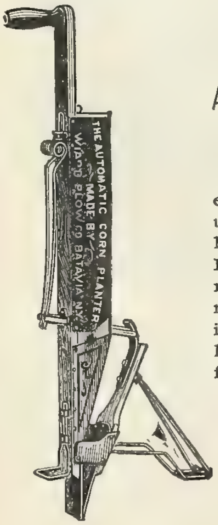
List price, **$10.00.** Discount for cash, 50 cents.

"ACME" One-Horse Harrow.



No. H. Works 4⅓ feet wide, 8 coulters. Price, with seat and lever adjuster, **$15.00.**

No. G. A splendid one-horse cultivator; 7 coulters. Cuts 3 feet wide. Has handles, as shown in cut, but no seat or lever. Price, **$9.00.**



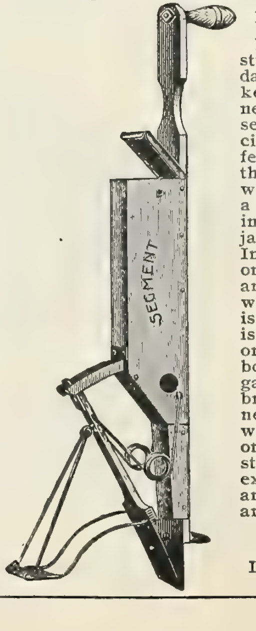
Automatic Hand Corn Planter.

This tool is manipulated by one hand, and is used as a person would handle a walking stick. It will plant as fast as a man can walk. It is well made and perfectly simple in construction. Very handy for replanting, and for small gardens.

Price, **$2.00.**

Discount for cash, 25 cts.

The Segment One-Hand Corn and Bean Planter.

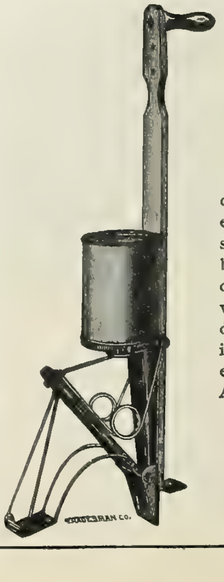


Patented Sept. 11, 1900.

Lightest, most accurate, strongest and most up-to-date planter on the market. Never cracks a kernel nor skips a hill. The seed pocket can be sufficiently enlarged to perfectly adapt it for planting the largest field beans as well as corn. The slide is a segment of a circle having its center where the jaws are pivoted together. In other words, the pivots on which the jaws open and shut are the hub of a wheel of which the slide is part of the rim. There is consequently no friction or lost motion. The seed box and hopper are of galvanized iron. The brush is of genuine Chinese bristles. All of the working parts are pressed or stamped out of sheet steel, and are therefore extremely light, strong and accurate. All parts are interchangeable.

Price, **$1.75.**

Discount for cash, 25 cts.



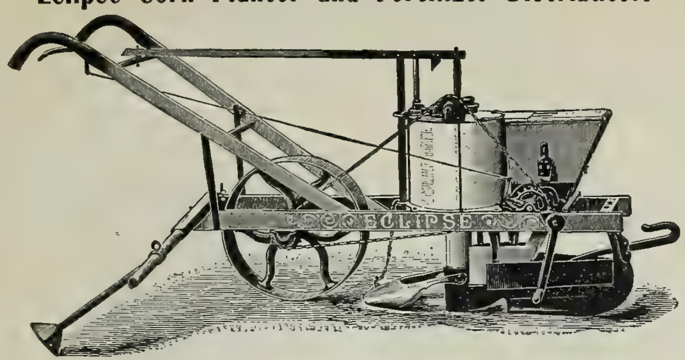
The American Automatic Corn Planter.

Prevents skips and broken corn. It is bound to drop every time. It hangs the same right handed or left—beginning or end of row. The operator carries no useless weight. It is neat, light and durable, and attractively finished. A corn crop is planted right when you use the American.

Price, **$1.75.**

Discount for cash, 25 cts.

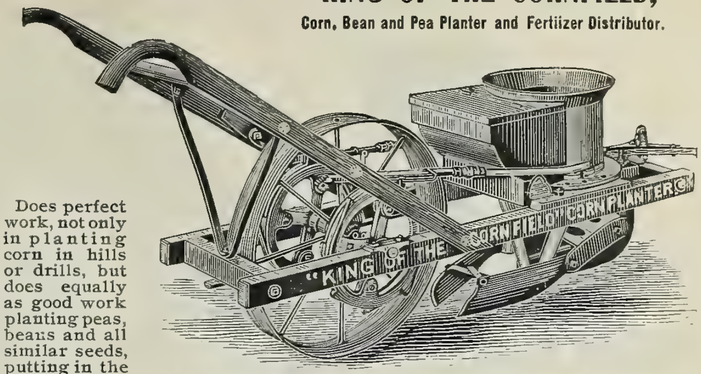
Eclipse Corn Planter and Fertilizer Distributor.



Plants field or ensilage corn, beans, peas or beet seeds in hills, drills or checks; it will drop 6, 12, 24, or 36 inches apart. By scattering pumpkin seeds in with the fertilizer in filling the hopper will place seeds in hills when planting corn. It accurately distributes from 50 to 450 lbs. as desired, of commercial fertilizer, wet or dry, in the rows of hills, first drawing moist earth on the seed before the fertilizer is dropped each side of the seed, and all is covered to a uniform depth. Price complete, **$21.00**; discount for cash, **$1.00.**

"KING OF THE CORNFIELD,"

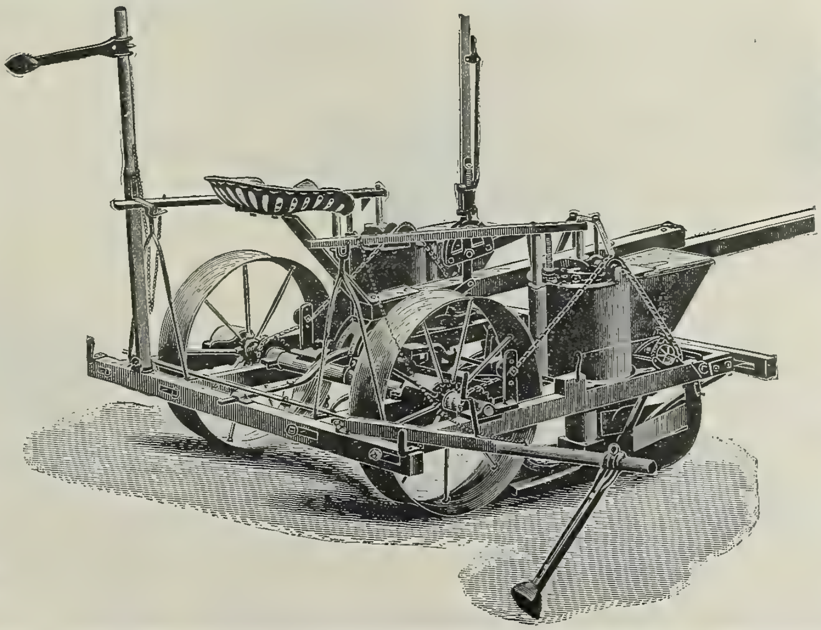
Corn, Bean and Pea Planter and Fertilizer Distributor.


"KING OF THE CORNFIELD CORN PLANTER CO

Does perfect work, not only in planting corn in hills or drills, but does equally as good work planting peas, beans and all similar seeds, putting in the fertilizer as well, in any desired quantity, or the fertilizer may be stopped off altogether, if desired. Another great feature in this machine, corn and beans may be planted at the same time in the same row, the beans half way between the corn, or 4½ or 9 inches from corn, as desired. The fertilizer may be put with the corn and left out of the beans, if desired to do so. List price, **$21.00**; discount for cash, **$1.00.**

Eclipse Two-Row Two-Horse Corn Planter.

The Most Complete, Accurate, Durable and Easily Handled Double Row Corn Planter in the Market.



All the good points found in the well-known and popular **"Eclipse Single Row Planter"** are retained in this machine.

The fertilizing device is acknowledged by all to be perfect. It will distribute from 50 to 600 pounds to the acre.

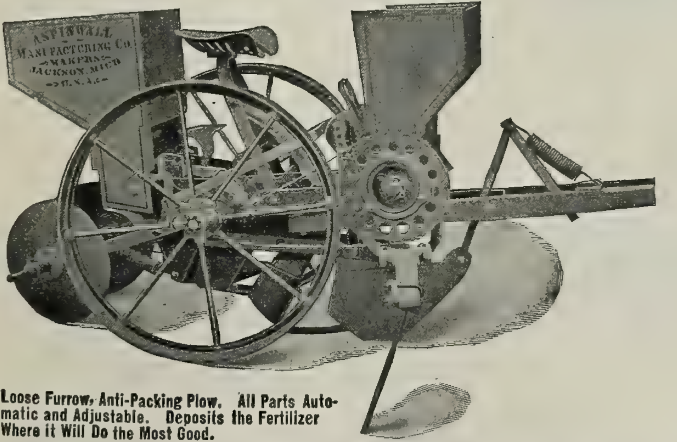
Planters can be adjusted in the frame to make the rows 36, 38, 40 and 42 inches apart. The new Marker Device, used for two seasons with perfect success on the single row Eclipse, is used on this. One move of the lever throws the machine out of gear, and at the same time raises the planter and coverers ready for turning the team at end of rows.

The check is operated with the foot when found desirable to have hills in line for cross cultivation.

For those planting 10 or more acres, and farmers that plant for their neighbors, we recommend this machine.

List Price, **$50.00.**
Discount for Cash, **$2.00.**

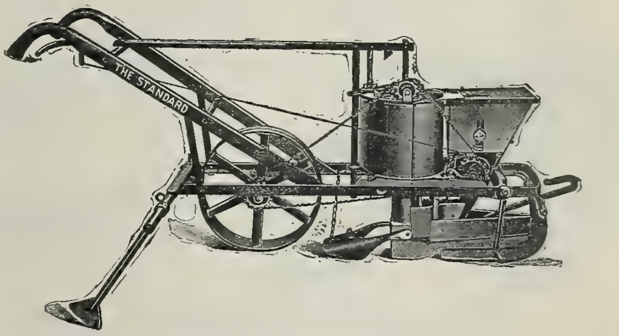
The New Aspinwall Potato Planter with Fertilizer Attachment.



Loose Furrow, Anti-Packing Plow. All Parts Automatic and Adjustable. Deposits the Fertilizer Where it Will Do the Most Good.

The New Aspinwall Potato Planter with **Fertilizer** Attachment embraces more substantial improvements and desirable features than any other make. Instead of depositing the fertilizer from the rear of the machine, partially mixing it with the earth as the furrow is being closed, they have transposed the location to the front and arranged the plow to open a deep furrow, where the fertilizer is deposited, being mixed and covered with the earth, putting it underneath and in advance of dropping seed. List Price, **$65.00**; discount for cash, **$5.00.** Corn Planter attachment, **$5.00** extra.

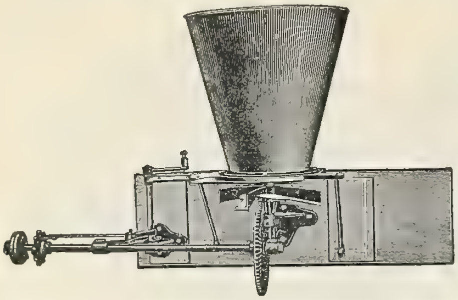
The Standard Corn Planter.



The Standard Planter shown above is in many ways the same as the Eclipse shown on the top of the page, and nearly all the parts will interchange. The principal difference is in the frame, which is made of steel instead of wood.

It will plant in hills, drills or checks, in various quantities as desired, field or ensilage corn, beans, peas or beet seeds at a variety of distances. Price, **$20.00.** Discount for Cash, **$1.00.**

Farmer's Friend Seed and Fertilizer Sower.

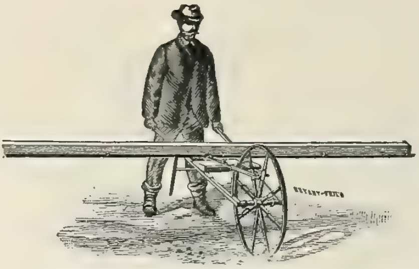


Attaches to any ordinary farm wagon, and sows to perfection grass and grain seeds of all kinds and in any desired quantity per acre, 50 to 100 acres a day. It also distributes all dry commercial fertilizers, also ashes, land plaster, lime, etc. It has a positive force feed and an adjustment opening the holes from ¼ to 1½ inches, which allows the sowing of seeds of any size; the flow can be shut off anywhere, either on one side or the other, or altogether, as required; it is instantly thrown in or out of gear.

Price, complete to attach to wagon, **$12.00.** Discount for cash, $2.00.

THOMPSON'S SEEDER.

For Broadcasting Grass, for Sowing Red Top, Clover, Timothy, and all Mixed Seeds. Light, Strong and Simple.



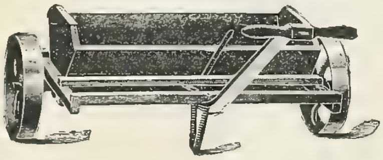
Sows uniformly the whole length of the hopper, twelve feet. Its simplicity of construction and its accuracy of work in the field places it at the head of all seeders. It has no cam or cog gearing to get out of order. It has a positive motion, and works as freely and easily when sowing as when empty. Seeding is generally done at the time of the year when winds prevail. It is then that the seeders can be used with marked success.

SEEDER NO. 5. Sows all varieties of Clover, Timothy, Hungarian, Millet, Alfalfa, Chaffy Seeds, like Red Top, Orchard Grass and clean Blue Grass. This style machine is made expressly for New England trade. List price, **$10.00.** Discount for cash, $1.50.

No. 4. Grain Seeder Box, 10 feet, for sowing all kinds of grain. This box fits on to No. 5 Seeder, and with both boxes all kinds of grain and grass seeds can be sown. List price, **$5.00.** Discount for cash, $1.00.

No. 5 Seeder and No. 4 Grain Box. List price, **$15.00.** Discount for cash, $3.00.

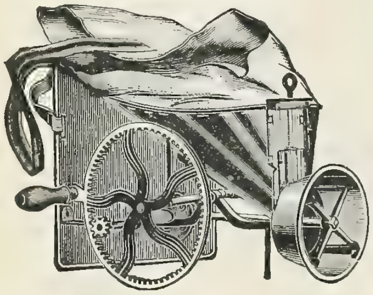
The Stevens Lawn Fertilizer Sower.



Does the work perfectly, sowing all kinds of lawn dressing and other commercial fertilizers, wood ashes, lime, etc., in large or very small quantities. It can also be successfully used for fertilizing strawberry beds and other garden and field work; is excellent for sifting wood or coal ashes. The hopper is 34 inches long and holds one and a half bushels. Weight of machine, 83 pounds. It is well made and nicely painted.

Price, **$12.00.**
Discount for cash, $1.00.

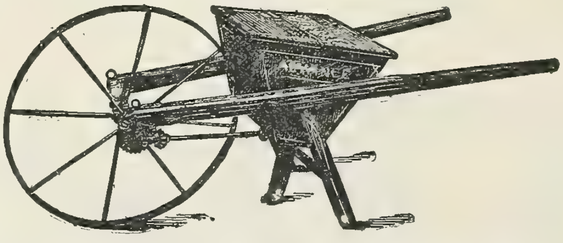
Cahoon's Improved Broadcast Seed Sower.



Will sow all kinds of grass and grain seeds from 4 to 8 acres per hour at a common walking gait. Heavy seeds, such as wheat, it will throw 40 feet (20 from each side of the operator); lighter seeds, of course, will not be thrown so far.

Price, **$3.50.**

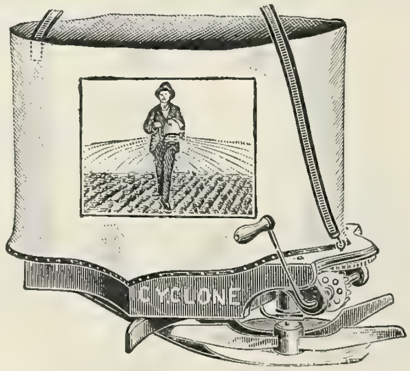
Keystone Jr. Hand Fertilizer Distributor.



This machine is very handy for small truck farmers and gardeners for sowing all kinds of commercial fertilizers. Its distributing disc is made of galvanized iron which prevents rusting. The cut-off is operated with the foot so that it does not scatter in turning at the end. Has 24-inch wheel designed to be used by hand, but a horse may be attached if desired.

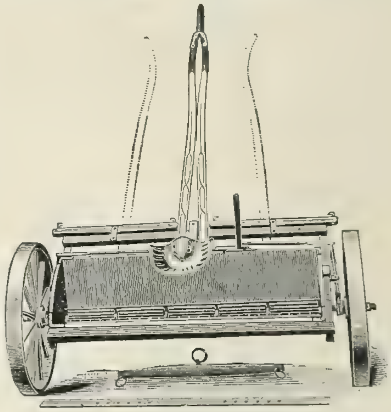
List price, **$8.50.** Discount for cash, 50 cts.

The Cyclone Broadcast Seeder.



This is the cheapest and best of the hand seed sowers on the market, and every one sowing one acre or more of grass seed or grain cannot afford to be without it. Will sow Timothy, Clover, Wheat, Oats, Rye, Buckwheat, Hungarian, Red Top, Millet, and all other grains and seeds perfectly even, and any desired amount to the acre, and from 40 to 60 acres a day. The machine is first-class in every respect. We guarantee the seeder to give satisfaction, or money refunded. Net price, **$1.50**.

The Stevens Fertilizer Sower.

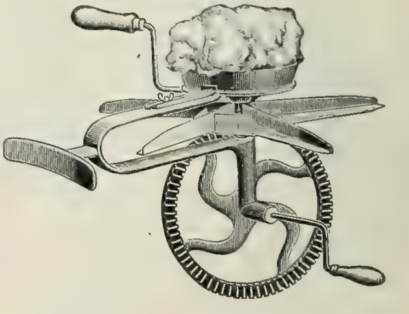


The latest improved and best machine for sowing all kinds of artificial fertilizer, such as bone, phosphate, cotton seed meal, ashes, lime, etc., either damp or dry, in drills or broadcast. Unequalled for top-dressing grass lands, lawns or large parks.

List price, **$50.00.**

Discount for cash, $5.00.

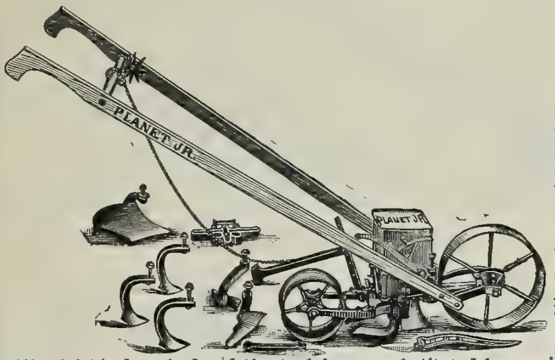
Perfection Jr. Broadcast Seeder.



This seeder is similar to the Cyclone, but made very much lighter and cheaper. It is well worth the money. Net price, **$1.00.**

The "PLANET JR." No. 4.

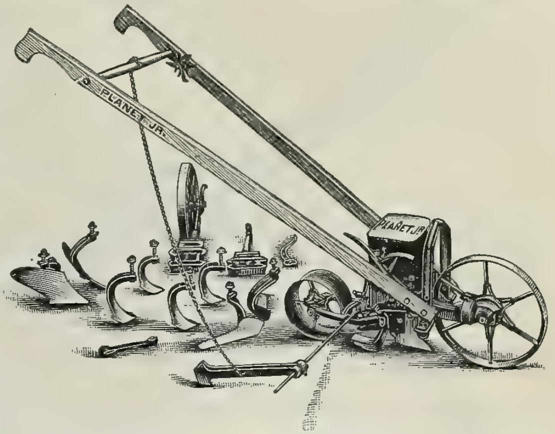
Combined Hill Dropping Seeder and Single Wheel Hoe.


PLANET JR.
PLANET JR.

This is exactly the same style of seeder as the No. 5 "Planet Jr." Hill Dropper, only smaller in capacity. It drops in hills at 4, 6, 8, 12 and 24 inches apart, and in drills any thickness, handling the smallest paper of seed perfectly. Throws out of gear instantly by simply raising the handles. The index is accurate, plain and easily set. The drill is detached and the tool frame substituted by moving but one bolt. It then becomes one of the most admirable Single Wheel Hoes. It has a garden plow, two hoes, three cultivating rakes, new form and made to fit 6, 9, 12, 14 and 16-inch rows, three cultivator teeth and a practical leaf guard.

Price, complete, $10.50; as a Drill only, $8.50.

Planet Jr. No. 25 Combines Hill and Drill Seeder and Double Wheel Hoe.


PLANET JR.
PLANET JR.

This new combined machine is intended for a class of gardeners who have a large enough acreage of crops for a double wheel hoe to be used to good advantage.

Hopper holds 2½ quarts (or about 5 pounds of onion seed), and has 11¼ in. wheels.

It is almost identical with the No. 4 drill; will sow in drills or hills 4, 6, 8, 12 or 24 inches apart and has the same automatic device for throwing out of gear and the new combined cut-off and seed index, with thumb-screw adjustment.

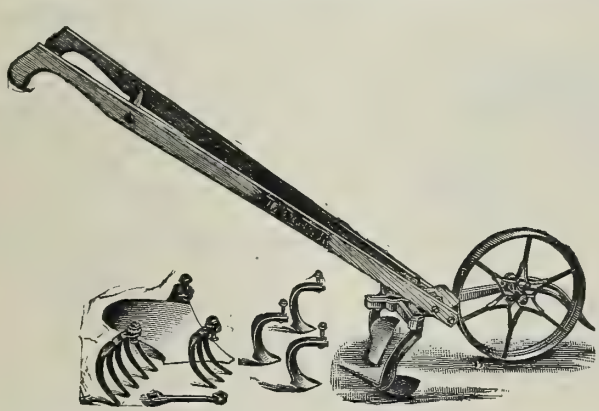
As a wheel hoe it is identical with the No. 12 double-wheel hoe.

The change from drill to wheel hoe takes but a moment, and the entire combination is one we can heartily recommend and guarantee satisfaction.

Net Price, $13.50

"PLANET JR." No. 16.

Single Wheel Hoe, Cultivator, Rake and Plow.

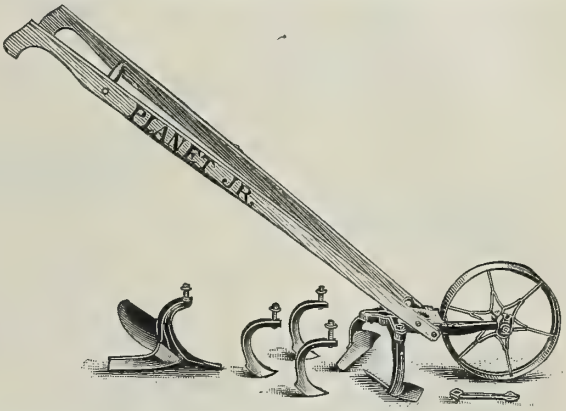


This Wheel Hoe is identical with No. 15, except that it has fewer tools, but the price is proportionately lower, and the remaining tools may all be added as wanted. The equipment is a most useful one and will be found just right for a great variety of work. The frame changes in height, and the wheel to the other side of the frame, to hoe both sides of the row at once.

PRICE, $5.85.

"PLANET JR." No. 17.

Single Wheel Hoe, Cultivator and Plow.

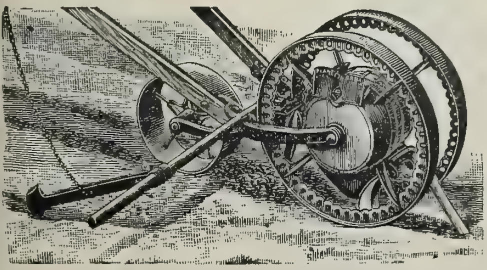


This also has the same frame, handles, etc., as No. 15, but is supplied only with a pair of 6-inch hoes, a set of cultivator teeth and a plow, a sufficient outfit for most gardening work. The others can be added at any time. The frame changes in height, and the wheel to the other side of the arm, then working both sides of the row at once.

Price, No. 17, $5.00; No. 17½, $4.50; No. 18, $3.50

No. 17½ is same as No. 17, less the plow.
No. 18 is same as No. 17, with hoes only.

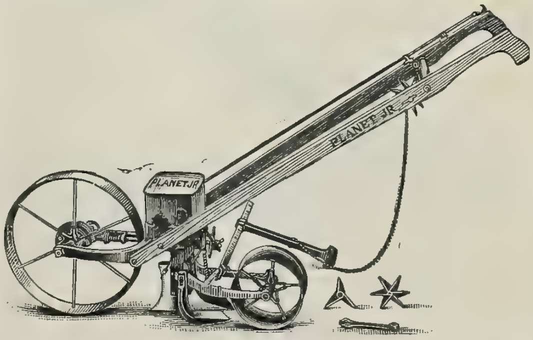
The "PLANET JR." No. 2 Seed Drill.



This tool is known the world over, and with the exception of the "Planet Jr." Hill Dropping Drills is the most perfect drill known. It holds two and one-half quarts.

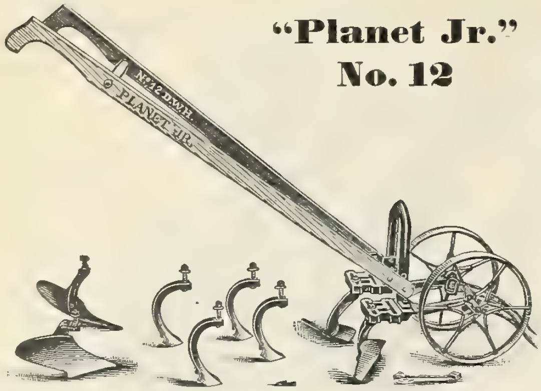
The drill sows in an even, regular stream, whether there is much or little in the hopper. The opening plow, being directly between the wheels, follows all irregularities of the ground, is adjustable, and once set, opens the furrow at a uniform depth, and the seeds are deposited in a very narrow line. The machine is extremely simple; no agitators, belts or gearing. **Price, $7.50.**

"PLANET JR." No. 3. Hill Dropping Seed Drill.


PLANET JR.
PLANET JR.

A fine Hill Dropping Seeder with hosts of friends. This drill will sow in a continuous row, in the ordinary way, with the greatest regularity; but its distinctive feature is that it will drop neatly in hills, either, 4, 6, 8, 12 or 24 inches apart. The wheel is 15 inches high, with a broad face. Is changed in a moment from hill dropping to drill work. Sows equally well whether the hopper is full or contains only a paper of seed, and will not injure delicate seeds such as radish, cabbage, etc., which are so often peeled or crushed by imperfect seeders. The plow is adjustable and opens a very narrow furrow which is a great advantage for after cultivation. 1896 was the first year that this machine was sold widely by the manufacturers of the celebrated line of "Planet Jr." goods, but it has since been bought very largely by careful gardeners and nurserymen and has given entire satisfaction. **Price, $10.50**

"Planet Jr." No. 12

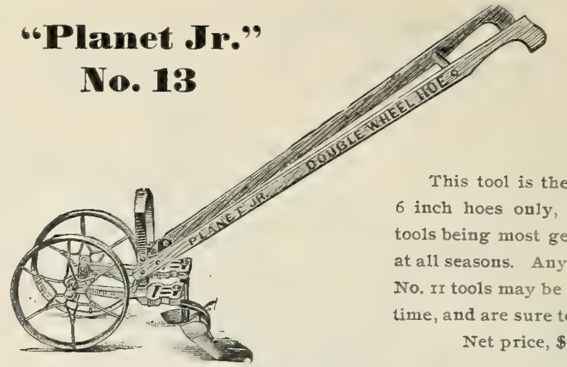

No 12 D.W.H.
PLANET JR.

This tool is identical with No. 11, except that it has a less complete equipment, as shown in the cut, but at a correspondingly less price.

The set of tools with No. 12 is what gardeners need most, and the rest can be added as wanted.

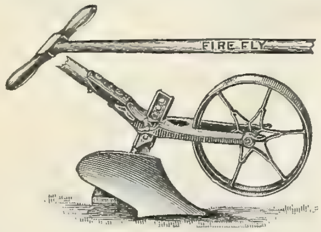
Net price, **$7.50**

"Planet Jr." No. 13



This tool is the No. 11, with 6 inch hoes only, this pair of tools being most generally used at all seasons. Any or all of the No. 11 tools may be added at any time, and are sure to fit.

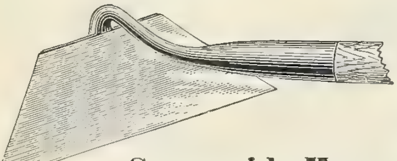
Net price, **$4.75.**



The "Fire-Fly" Plow

This tool is invaluable for those who have small gardens. The moldboard is tempered and polished steel. The depth may be changed very quickly. The low price brings it within the reach of all. Very useful to plow up the chicken yards.

Price, **$2.35.**

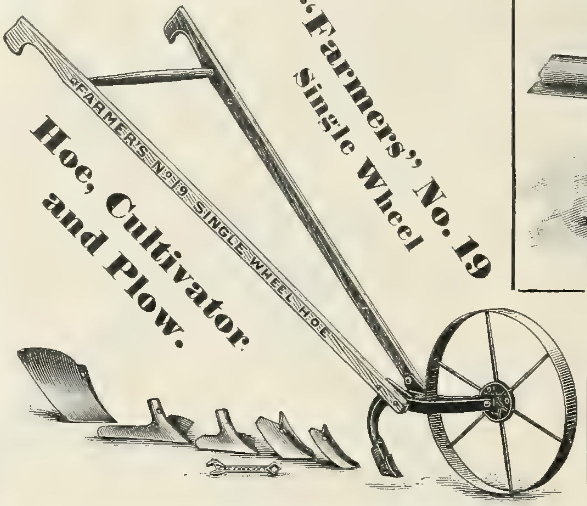


Sunnyside Hoe.

The above cut shows the Sunnyside or Strawberry Hoe, invented several years ago by one of our largest strawberry growers and since then used by several of the leading fruit growers in the state. It is especially adapted for small fruits and close cultivation.

Price each, **35c.**; 3 for **$1.00.**

"Farmers" No. 19 Single Wheel Hoe, Cultivator and Plow.


FARMER'S No 19 SINGLE WHEEL HOE

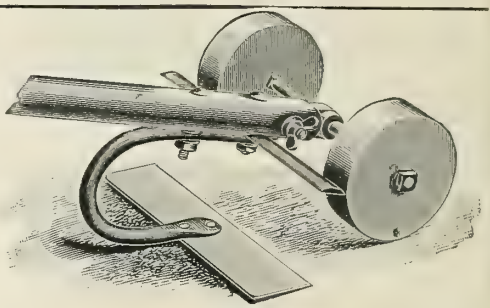
This new and attractive implement is especially designed for the farmer's garden work, though it offers to everyone with either field or garden a cheap and effective tool for all hand wheel hoe operations.

The Wheel is high and is made with stiff steel rim and spokes, and a combination steel and malleable iron hub. The wheel arms are steel and the frame of the tool is attached adjustably to the wheel arms, so that the height of the handles may be readily changed to suit man or boy.

The Standard is slotted to make regulation of depth easy.

The tools are as follows: One Large Garden Plow, One Ten Inch Sweep, One Six Inch Sweep, One Four Inch Cultivating Tooth, One Two Inch Cultivator Tooth.

Price, **$3.75.** Discount for cash, 25c.

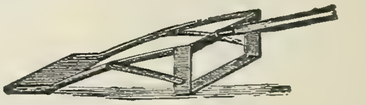


The Sheldon Wheel Hoe.

A low-priced, but very efficient little implement for flat or scuffle hoeing. Either in gardens, where it cuts off all weeds, or for cleaning walks of weeds and grass it is equally useful. It is a very easy-working tool with a sharp steel blade, a 7-foot handle and wooden wheels.

Net price, **$1.50.**

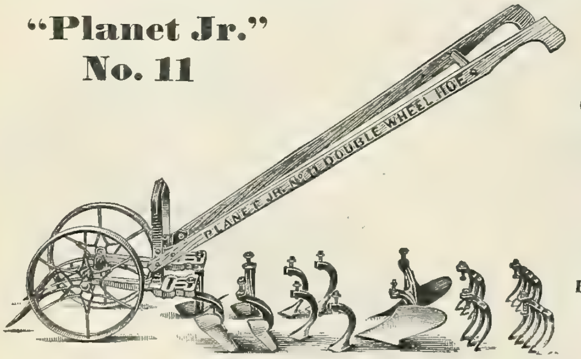
Arlington Slide Hoe.



Used by nearly all of the large market gardeners. Where there are no stones it will do excellent work and do it fast. Made in three sizes.

8 in., **$1.50;** 9 in., **$1.65;** 10 in., **$1.75.**

"Planet Jr." No. 11


PLANET JR. No 11 DOUBLE WHEEL HOE

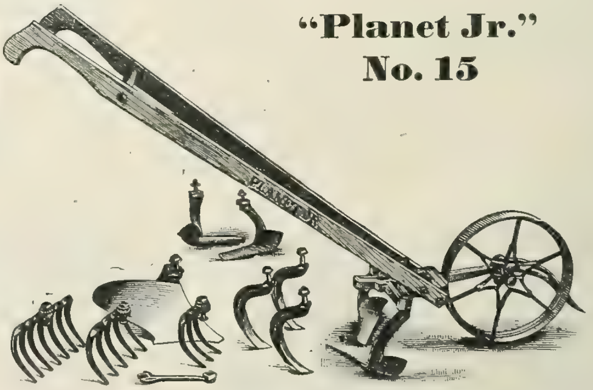
Double Wheel Hoe, Cultivator, Rake and Plow.

The Latest and Best Double Wheel Cultivator, Etc.

The latest improved double wheel machine, combining all of the merits of the older styles, with several desirable new features. The wheels, 11 inches in diameter, can be set 9 or 11½ inches apart for narrow rows, and 4 inches apart when used as a single wheel hoe; the frame is malleable, with a quick change device so the position of the tools may be changed without removing the nuts; the arch is 20 inches high, allowing it to straddle crops when well grown. The outfit of tools comprises the greatest variety and all of the latest designs, covering every possible need.

Net price, **$9.00.**

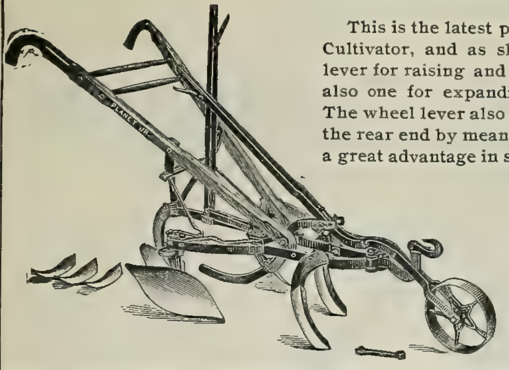
"Planet Jr." No. 15



Single Wheel Hoe, Cultivator, Rake and Plow.

This latest and best Single Wheel Hoe has an 11-inch wheel, with broad face, and a conveniently arranged set of tools, several of them being of a new special design, such as have been found to perform Wheel Hoe work in the very best manner. Has adjustable handles, and frame especially adapted for quick changing of teeth. It is a most perfect Wheel Hoe for market gardeners or for private places. The tools are a well-shaped plow for plowing, marking out, covering and late cultivation; a pair of neat 4-inch shield hoes, just right for hoeing in rows from 9 to 12 inches, and a large pair for wider work; and three cultivator teeth. Also a set of three rakes just right for 6, 9, 12 and up to 16-inch rows, with two arranged side by side; the rakes are just the thing for preparing ground for the seed drill. A practical leaf guard completes the equipment. The frame changes in height, and the wheel to the other side of the frame when both sides of the row can be hoed at one passage. Price, **$7.00.**

THE PLANET JR. No. 8.



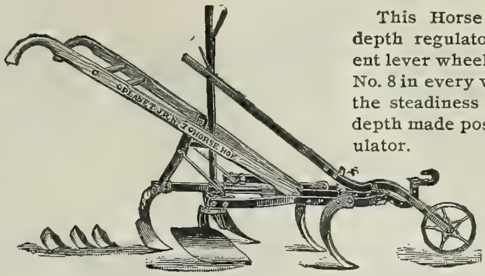
This is the latest pattern Horse Hoe and Cultivator, and as shown in cut, it has a lever for raising and lowering the wheel; also one for expanding and contracting. The wheel lever also governs the depth of the rear end by means of a shoe, which is a great advantage in sandy ground.

List price $8.50.

Discount for cash, 50 cents.

THE PLANET JR. No. 7.

Horse Hoe and Cultivator.

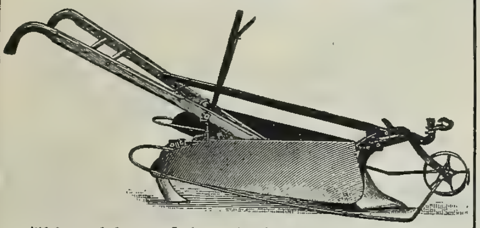

PLANET JR No 7 HORSE HOE

This Horse Hoe is No. 8, without depth regulator, and a slightly different lever wheel. It works the same as No. 8 in every way, except that it lacks the steadiness and absolute control of depth made possible by the depth regulator.

All the attachment that are used on the No. 8 can be used on this style.

List price, $8.50. Discount for cash, 50 cents.

THE PLANET JR. CELERY HILLER.

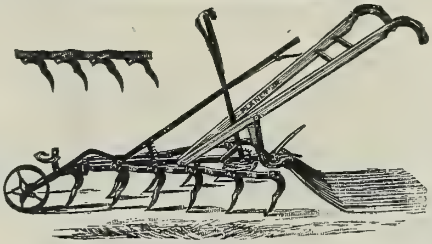


This tool is used largely by celery growers for banking celery in the fall. We can furnish both single or double. The single is used mostly, and will do the work of five men.

List price, double............$14.00.
List price, single.............. 11.00.
Discount for cash, 50 cents.

THE PLANET JR. 12-TOOTH HARROW,

Cultivator and Pulverizer.

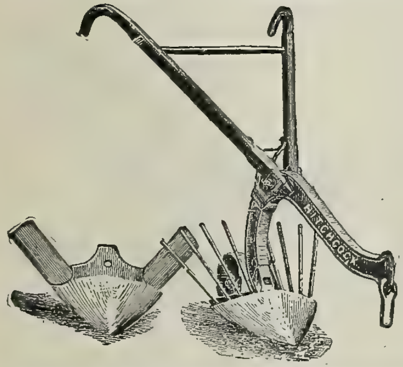


This thorough working and convenient tool has grown in favor among strawberry growers, market gardeners, truckers and farmers. This is because the twelve chisel-shaped teeth do such capital work, without throwing earth on small plants, and because the tool is so convenient, durable and strong, the combination of teeth and pulverizer leaving the ground in the finest condition. The pulverizer also enables the operator to set the tool, in conjunction with the wheel, to any exact depth desired, making delicate work not only possible, but very easy. It is invaluable in narrow rows and delicate work in market gardens and close work on the farm, and is fine for preparing seed beds. The implement is fitted with lever wheel and lever expander, so the depth or width can be changed instantly while in operation; it contracts to 12 inches, and expands to 32 inches. The handles can be raised or lowered to suit the driver.

List price, with pulverizer as shown, $8.50.
Less pulverizer, $6.90. Discount for cash, 50c.

THE HITCHCOCK POTATO DIGGER

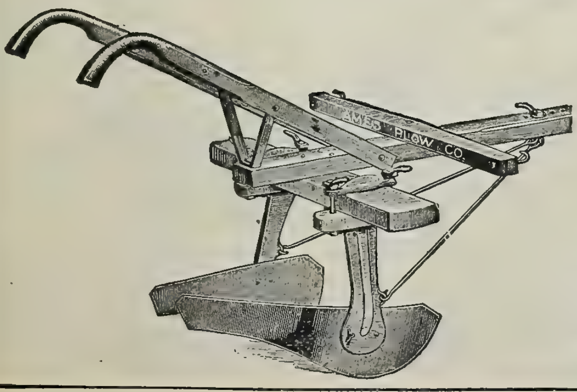
And Shovel Plow Combined.



This implement, though very simple in appearance, is as near perfect as can be attained and come within the reach of every farmer. By the changing of one bolt it may be converted either into a shovel plow or potato digger. The fingers are adjustable, being held in position by the plow point. Thus, in case of breakage, a new part may be inserted. The fingers, points and wings are made of steel.

Hitchcock Potato Digger, $8.00. Hitchcock Potato Digger and Shovel Plow combined, $10.50.
Discount for cash, 50 cents.

New Model Horse Hoe.


AMES PLOW CO.

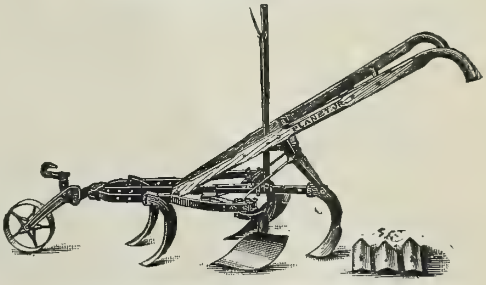
* * *

Cheapest and best two-horse hoe on the market.

Can be used for furrowing out, covering and hilling up. Frame is made of oak, hillers of polished steel. Price $10.00. Discount for cash, $1.00.

* * *

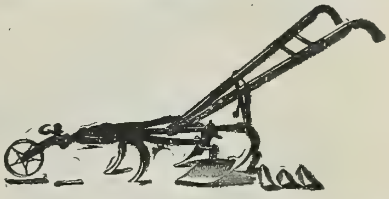
No. 9 HORSE HOE AND CULTIVATOR.



This admirable tool is identical with the No. 8, except that it has a plain instead of a lever wheel. It has the high frame, patented hollow steel standards, patent lever Star wheel, new lever expander, and new hollow steel wheel arms.

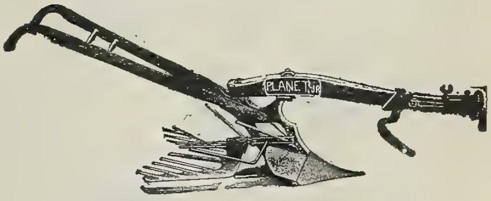
List price $7.40. Discount for cash, 50 cents.

No. 4 HORSE SHOE AND CULTIVATOR.



This tool is low in price, strong and simple; it has the old favorite stirrup clamp and plain expanders; they cost a trifle less than the lever, but are less convenient. List price, $6.35. Discount for cash, 50c.

PLANET JR. IRISH POTATO DIGGER.



The Planet Jr. Double Moldboard Potato Digger is simple, easily understood and worked; has no gearing or shakers; the draught is light, and there is nothing to wear out but the shares, and they and the moldboards are hardened steel. The action is that of raising, dividing and turning the row on edge, and then separating the potatoes from the earth by means of steel fingers and lifting them to the surface. The vine turner makes it perfectly easy to dig when the vines are green, and is of great assistance in weedy patches.

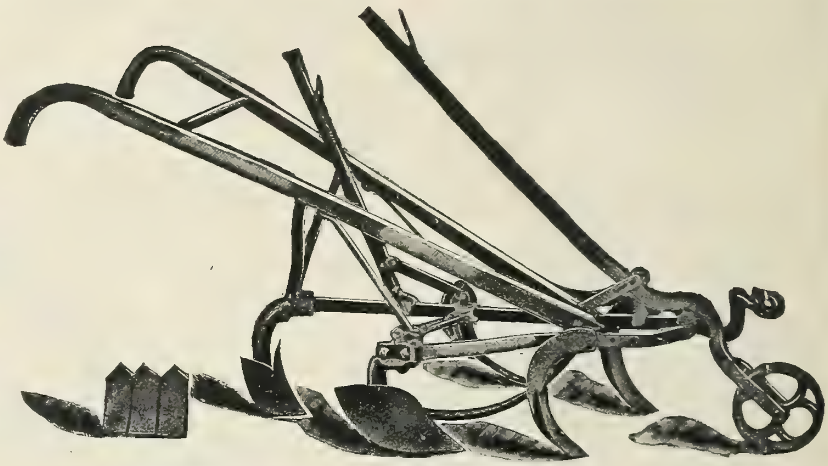
The Planet Jr. Single Moldboard Potato Digger is constructed exactly like the above, except it throws but one way. The double leaves the ground more level, but the single has the advantage of leaving the potatoes less scattered.

List price, $16.00. Discount for cash, 50 cents.

THE

Sterling Horse Hoe and Cultivator

This tool is made for us under our own name and nothing but the best steel is used in its construction. The frame is not one of those heavy, clumsy iron frames that tire both man and horse, but it is made very light, yet strong enough to stand any ordinary strain. It has one lever for expanding and contracting the frame without removing any bolts or pins; another lever that regulates the height of the wheel and also works a runner attached to it that regulates the depth of the rear end. This is a great improvement on mellow ground as it prevents the teeth from running in too deep. The handles have a double brace which makes it the most rigid Horse Hoe ever made. The Side Hillers are made of fine quality steel and will work in all kinds of soil. They are also made adjustable and may be set at any angle by simply loosening a bolt. It has the hollow steel standard (the strongest ever made) extra steels for transforming it into a common cultivator. We sell it only as shown in cut, complete.

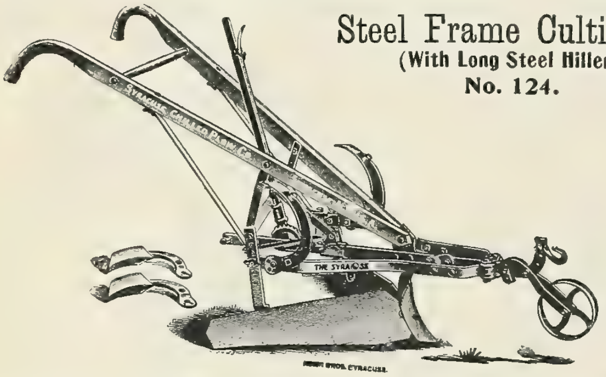


LIST PRICE, $6.00. DISCOUNT FOR CASH, $1.00.

Steel Frame Cultivator.

(With Long Steel Hiller.)

No. 124.



This tool is similar to the **No. 123, shown** below, but in place of the short steel hiller wing we use the long hiller, same as on No. 101. This makes a lighter tool and one that can be used for furrowing as well as hilling, and it is sold at a very low price. List price, $**7.00**; discount for cash, 50c.

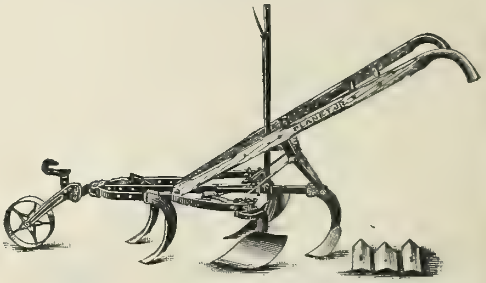
Planet Jr. Horse Hoe No. 5.

HORSE

HOE

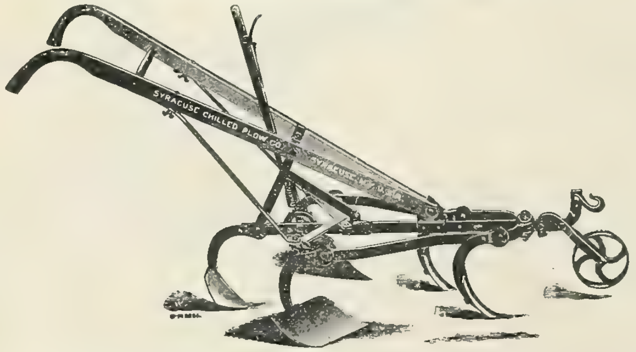
AND

CULTIVATOR.



This is similar to No. 9, without the handle brace, and has a cheaper, but good substantial adjusting lever, and is sold at a popular price and is superior to many that have sold for seven and eight dollars. List price, $**6.50**; discount for cash, 50c.

Steel Frame Cultivator No. 123.

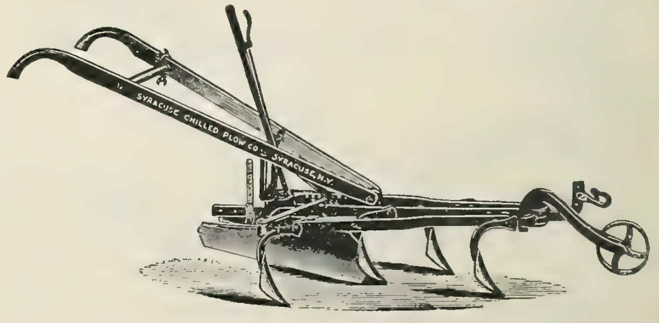

SYRACUSE CHILLED PLOW CO.

This series of Cultivators meets the demand for a good cultivator at a low price. The points and standards are of the same stock as used in No. 101, but the frame is somewhat shorter and a trifle lighter. The standards are adjustable for pitch. The handles can be raised or lowered, or shifted to the right or left.

No. 123 (as shown in cut)—Expanding Lever, five 3-inch Points, Wing Points, Shovel Point and Wheel. List price, $**6.00**; discount for cash, 50c.

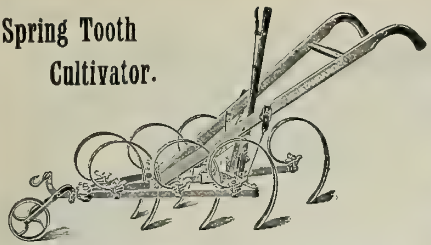
No. 121.—Same as above less the horse hoe attachment, 50c. less.

Steel Frame Cultivator No. 101.


SYRACUSE CHILLED PLOW CO. SYRACUSE, N.Y.

This cultivator is simple, strong and easy to operate. Has no "Dead Centers," and no Loose Joints. The frame and standards of these cultivators are very strong; made of solid steel; the side bars are so curved as to make the teeth run parallel, and also to make all standards interchangeable; square bolt-holes prevent any bother from bolts turning around, and all parts are made with accuracy and nicety of finish. It can be changed to use as a plow, cultivator, horse hoe, coverer and furrowing plow; no extra parts other than those shown in the cut required. List price, $**8.00**; discount for cash, 50c.

Spring Tooth Cultivator.

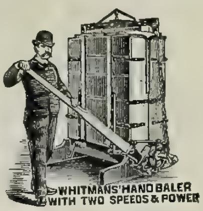


This Cultivator is especially adapted for use in stony ground, The frames are steel, strong, and well put together throughout. The castings are malleable. The teeth are fine oil-tempered springs, and are alike and interchangeable; they are also adjustable for angle and depth. The adjusting levers are of the same form and construction as those used in No. 101 Cultivator.

Expanding Lever, Five Spring Teeth and Wheel. List price, $7.50; discount for cash, 50 cents.

Whitman's Hercules Baling Press.

Highest Awards at World's Fair, Chicago, and in Every Other Contest.



HAND POWER.—For Hay, Straw, Wool, Broom Corn, Pea Vines, Cotton, Rags, Paper, Hair, Moss and Materials requiring Baling.

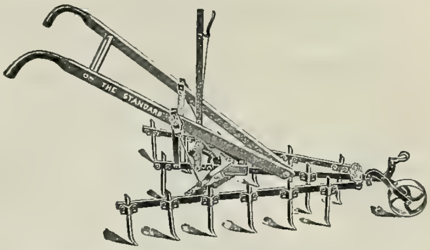
We guarantee this Press to be more rapid and powerful than any other hand power baler of its size in use.

Retail Price List on Car or Boat at St. Louis.

		List Price
No. 1.	Bales 42x18x20 in.	$ 95.00
No. 2.	Bales 44x24x22 in.	100.00
No. 3.	Bales 54x26x24 in.	105.00
No. 4.	Bales 60x26x24 in.	110.00

Send for Circulars of Power Press.

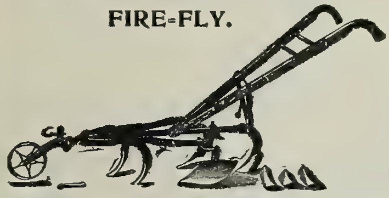
Spike Tooth Cultivator and Harrow.



Designed for cultivating between small fruits. Especially adapted to pulverize the soil and leave it smooth and level. The teeth are reversible and the pitch can be quickly changed forward or back by simply loosening one bolt at each tooth. Has 14 teeth, adjusting lever, and wheel. List price, $6.00; discount for cash, 50 cents.

The Fire-Fly Five-Tooth Cultivator.

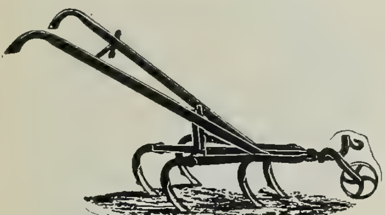
FIRE-FLY.



This is a new model 5-tooth Cultivator and Horse Hoe, with solid frame, stiff handles, adjustable in height, open frame, hollow steel standards. No expanders or hinge. Outside width of frame 18 inches.

List price as shown in cut, $5.00.
Discount for cash, 50 cents.

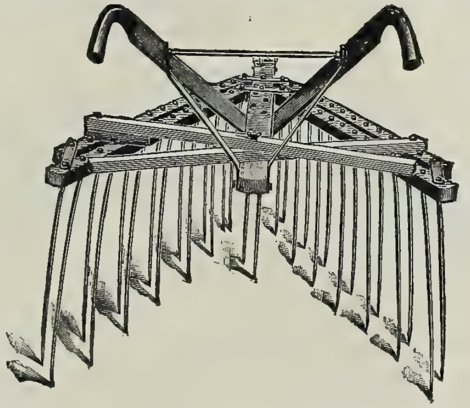
Steel Frame Cultivator.



This is a good, well made Cultivator, with steel standards, steel frame and points. Furnished with wheel only.

List price, $4.50.
Discount for cash, 50 cents.

Keystone Adjustable Weeder.



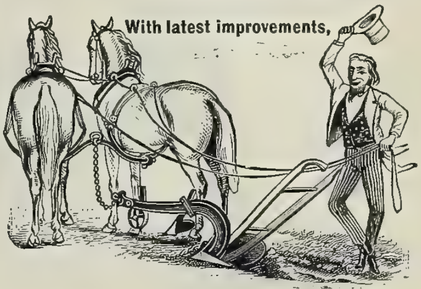
We Guarantee this to be the Best Weeder in the world or Money Refunded.

Can expand to 7½ feet. Can narrow to 30 inches.

"A stitch in time saves nine." Nowhere does this adage apply more surely than in the early and frequent use of the KEYSTONE WEEDER.

Have you considered the subject of frequent and shallow cultivation? Are you aware that this method of culture is endorsed by the most prominent authorities of agriculture, and has surely come to stay? Frequent and shallow cultivation has been demonstrated to be a success. The "Keystone" is the only Weeder that is adjustable to any depth and width. It can be used as a shallow cultivator—working close to the plants between the rows, until the crops mature—long after other Weeders are laid aside. It has no shafts that will hinder working close to the fence and prevent turning at the ends. IT WILL NOT CLOG. The long, curved, spring teeth are so placed and shaped that clogging is impossible. It is V shaped, which not only makes it a stronger tool than the straight framed Weeders, but adapts itself much better to uneven surfaces. It keeps the surface fined, to admit the air, and breaks the crust, thereby creating a mulch that absorbs the moisture and retards evaporation. List price $10.00; discount for cash, $1.00.

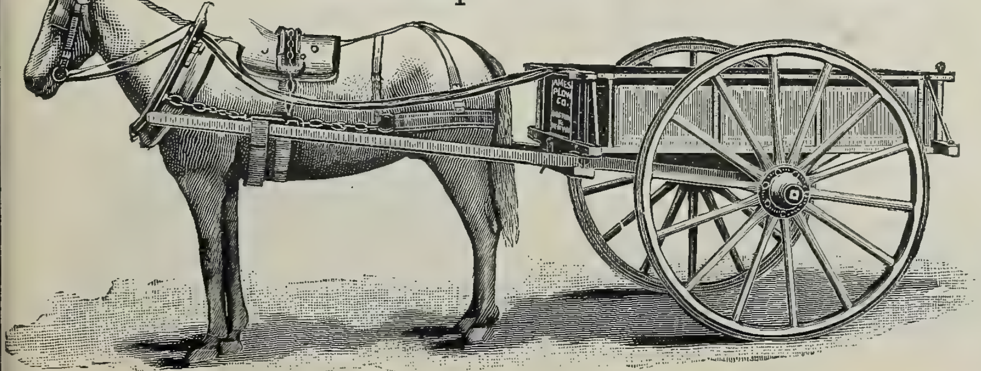
SHERWOOD STEEL HARNESS.



This Harness requires no whiffletrees, no long tugs; nothing in the way around the horses' heels; nothing to bark the trees; team works better and easier; less work for man and team. Can be used on plow, scraper or wagon.

List price, $15.00.
Discount for cash, $3.00.

Farm Dump-Carts for One or Two Horses.

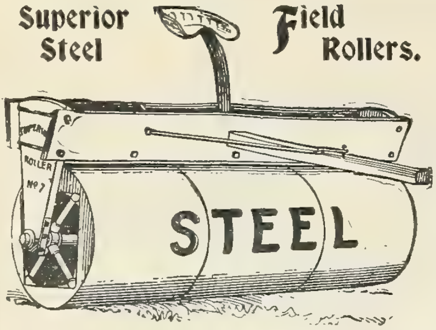


The accompanying illustration represents our medium Farm, or Contractor's Dump Cart. This Cart is made very strong, yet light enough for one-horse farm work. We can furnish any heft for one or two horses.

	List Price
Light Farm Cart	$45.00
Medium Farm Cart	50.00
Heavy Farm Cart	52.50
Railroad Cart	52.50
Extra Railroad Cart	60.00

Discount for Cash, 5 per cent.

Superior Steel Field Rollers.



This, in our opinion, is the best Field Roller that is on the market. It has cushioned rims, and will, therefore, stand hard usage on rough and stony land; of light draught and turns with the utmost ease. Axle of polished steel, babbitted and self-oiling bearings, drums revolving independently on the shaft when turning corners; practically indestructible; a hardened rolled steel rim close riveted at the edges. Substantial hard wood weight box; by this means the weight can be increased to double its weight.

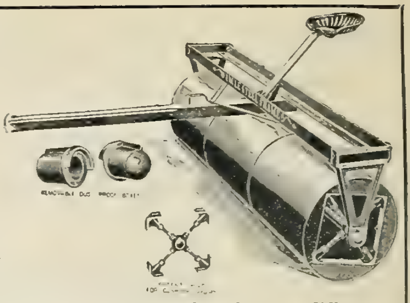
LIST OF SIZES AND WEIGHTS.

Number.		Length.	Diameter.	Av. Weight.	Price.
3.	Plain Roller.	6 feet.	24 inches.	550 pounds.	$27.00
7.	" "	7 "	24 "	650 "	29.00
4.	" "	8 "	24 "	750 "	31.00
5.	" "	6 "	30 "	650 "	33.00
9.	" "	7 "	30 "	750 "	37.00
6.	" "	8 "	30 "	850 "	41.00

All of the above Rollers have three sections. 10 per cent discount for cash.

The Standard ...Field Roller.

Steel Drum,
Steel Angle Bar Weight Boxes.



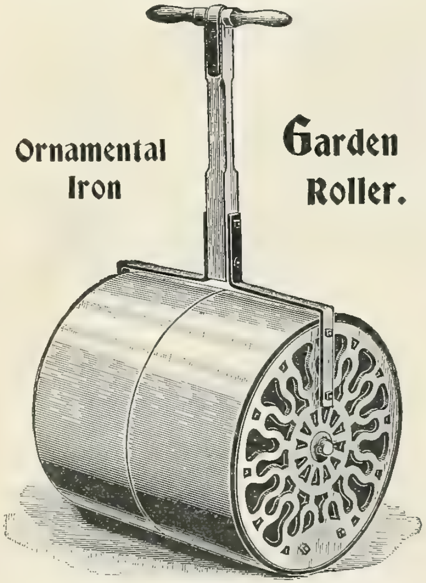
This Roller has the same steel drum as the Superior, the only difference being in the frame and drum head; the latter is made of cast iron, the former of angle steel.

SIZES AND WEIGHTS.

Number.		Length.	Diameter.	Av. Weight.	Price.
20.	Three Section Roller.	6 feet.	24 inches.	550 pounds.	$28.00
21.	" " "	7 "	24 "	650 "	30.00
22.	" " "	8 "	24 "	750 "	32.00
23.	" " "	6 "	30 "	650 "	34.00
24.	" " "	7 "	30 "	750 "	38.00
25.	" " "	8 "	30 "	850 "	42.00

10 per cent discount for cash.

Ornamental Iron Garden Roller.



These Rollers are designed to meet the wants of those who desire a first-class, easy running, handsome and efficient roller, and who do not require that extra finish attainable only by the use of our Steel Rollers.

They all have polished machinery steel shafts, lathe bored bearings, and are confidently recommended as the most effective and easiest running Cast Iron Roller made.

List of Sizes and Weights.

No.	Size Diam.	Weight.	Price.
2	19 x 21	200 lbs.	$11.00
3	22 x 22	250 lbs.	13.50
4	25 x 23	300 lbs.	16.00

All these Rollers have Two Sections and Automatic Handles.

Discount for cash:

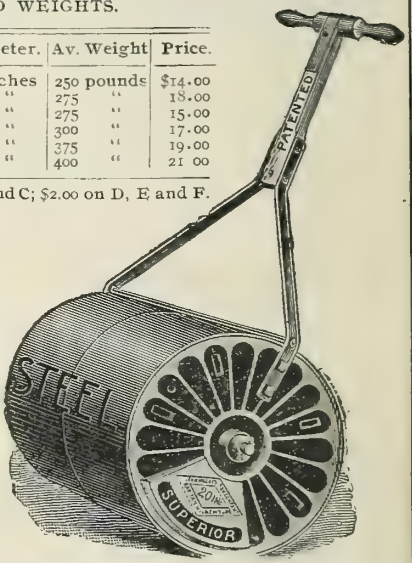
50 cents on No. 2 and $1.00 on Nos. 3 and 4.

LIST OF SIZES AND WEIGHTS.

No.	Section.	Length.	Diameter.	Av. Weight	Price.
A	1	20 inches	20 inches	250 pounds	$14.00
B	1	24 "	24 "	275 "	18.00
C	2	20 "	20 "	275 "	15.00
D	2	24 "	20 "	300 "	17.00
E	2	20 "	24 "	375 "	19.00
F	2	24 "	24 "	400 "	21.00

Discount for cash, $1.00 on A, B and C; $2.00 on D, E and F.

Superior Steel Hand Power Roller



Wet soil and grass clippings will not stick to steel as they will to cast iron.

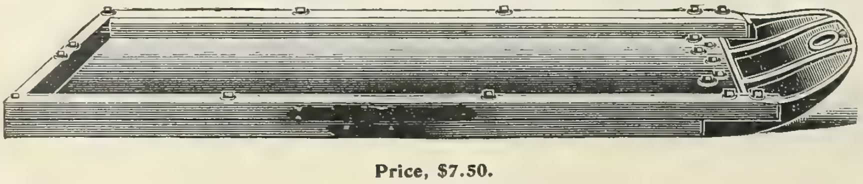
As rolling is most effective when the soil is moist and pliable, Steel Rollers are the only implements fully equal to needs of those who wish to give the limit of finish to their Walks, Lawns and Tennis Courts.

The sections are made of smooth rolled steel. The handles stand erect automatically.

Two Useful Articles that Farmers Need!

The illustration below shows a simple device whereby a stone boat can be made in a few minutes by using straight plank with the addition of the Iron Head. Any one in need of a stone boat will readily see how easy it is done, and as one head will last for years, it is not only cheap but durable.

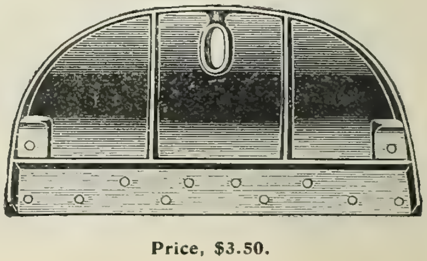
Illustration below shows Stone Boat Complete.



Price, $7.50.

The illustration below shows the Cast Iron Boat Head ready for the plank, and where they can be had easily it is cheaper to buy simply the Head and make the boat yourself.

Iron Stone Boat Head.

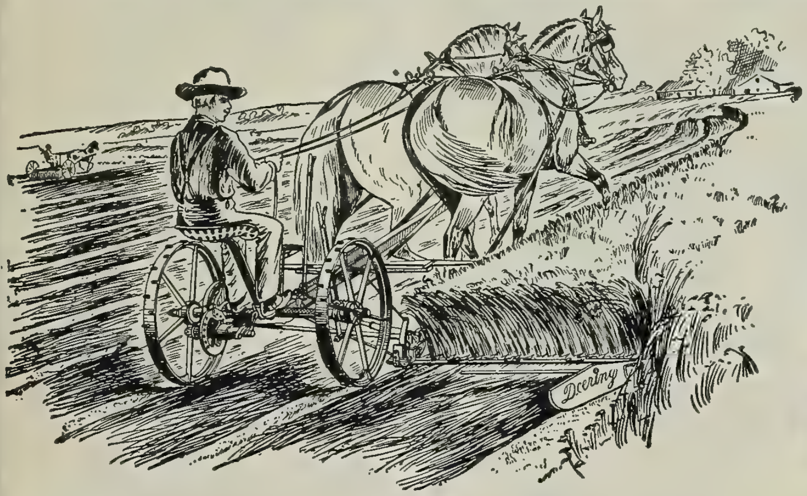


Price, $3.50.

The Ideal or Bicycle Mowing Machine.

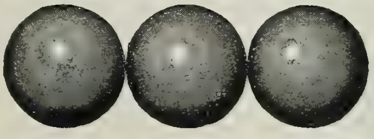
The Only Machine Made that Runs on Ball Bearings.

This machine runs on ball and roller bearings, the same as the most approved bicycles, and has the same relation to the ordinary mowing machine as the bicycle does to the old velocipede, and we defy anyone to show us one good reason for buying any other machine on account of looks, material, principle or workmanship. The mammoth works of the Deering Harvesting Co., are among the largest in the world, covering 65 acres of ground and employing over 6000 hands, not including the thousands of agents which represent them in all parts of the world. The capacity of these works is one complete machine and thirty miles of twine every minute. It costs money to equip these machines with such bearings, but we are able to offer them at but a few dollars advance above the old style machines.



One-Horse, 3 1-2 and 4 ft. Cutter Bar.
Two-Horse, 4 1-2 and 5 ft. Cutter Bar.
Giant 6 and 7 ft. Cutter Bar.
All with Ball Bearings.

If you want to know anything about the Ideal drop us a card, we undoubtedly can give you the name of some reliable farmer in your town that has one and who will explain to you the difference between the old style bearing and a ball and roller bearing. So positive is the action of the gearing on the Deering Ideal that the knife starts the instant the wheels move; and this machine can be started without backing the team in the most difficult crops; the horizontal crank shaft allows the pitman to run easy and without that jerking and jarring and wabbling on most machines. A few of its many good points are, floating cutting-bar, serrated ledger plates, foot lever for raising cutter-bar, no neck weight on the horses, and many other good points not found in any other machine.



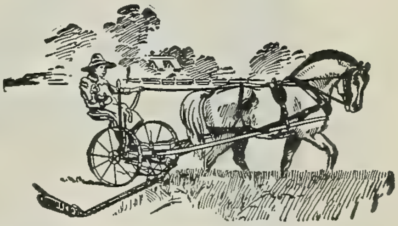
Exact size of balls used on Ideal Deering Mower.

Nothing like them used on any other machine.

Price, 4½ Foot Cutter-Bar,.........$40.00. Price, 5 Foot Cutter-Bar,.........$42.00 Price, 6 Foot Cutter-Bar, Giant,....... $45.00

We carry over 3,000 Dollars Worth of Repairs for these Machines in Stock.

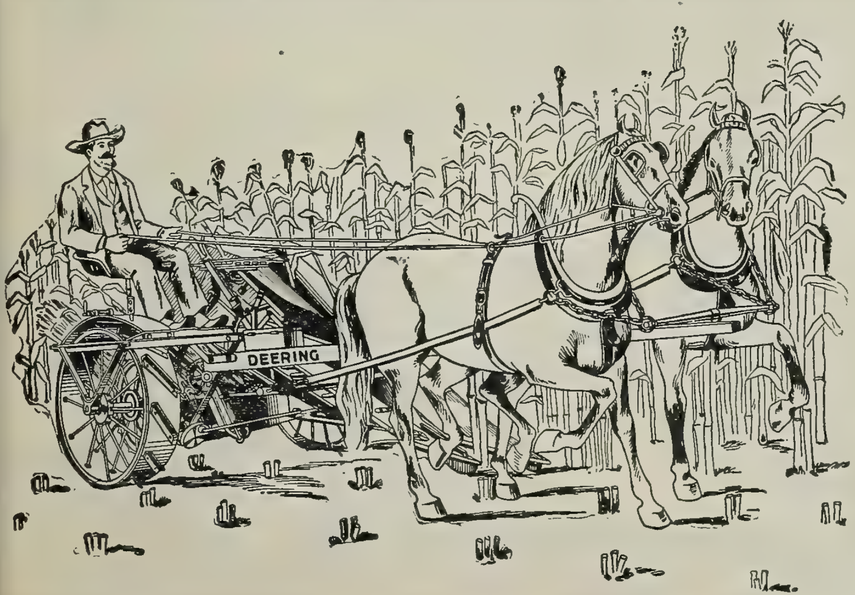
Deering Ideal One-Horse Mower, 3½ and 4 Foot Cut.



The Deering One-Horse Mower is used to cut the finest lawns in Lincoln Park, Chicago. Secretary Bryan of the Board of Commissioners says: "I consider it a perfectly reliable, trustworthy machine."

Many of our best farmers buy two of these one-horse 4 foot cut machines and thus with one pair of horses cut 8 feet instead of 4½ or 5 feet with one two horse machine.

Price, 3½ Foot Cutter Bar,..........$38.00. Price, 4 Foot Cutter Bar,..........$40.00.



Deering Ball-Bearing Corn Harvester.

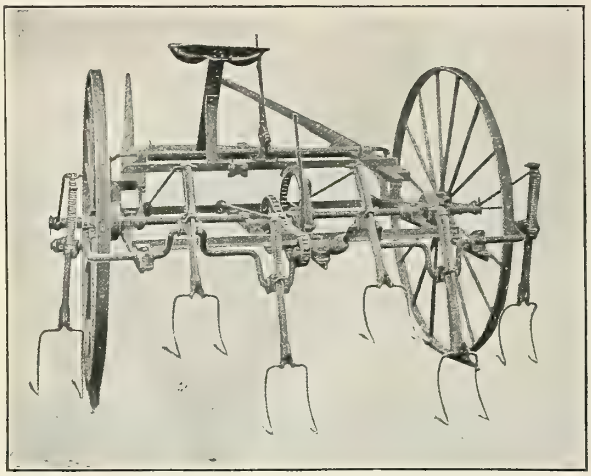
Declared by the best informed authorities to be the Only Successful Corn Harvester before the American people. Made on the right principle. The Deering plan of permitting the corn to fall backward on a low horizontal binder deck is superior in every way to the method of holding the top-heavy stalks upright. Lightest in draft, makes a better bundle, and does not break off nearly as many ears as are broken by the vertical machines.

To any farmer who has more than a medium acreage of corn and has any use at all for his fodder, a good corn harvester and binder is a necessity.

Send for handsome illustrated catalogue.

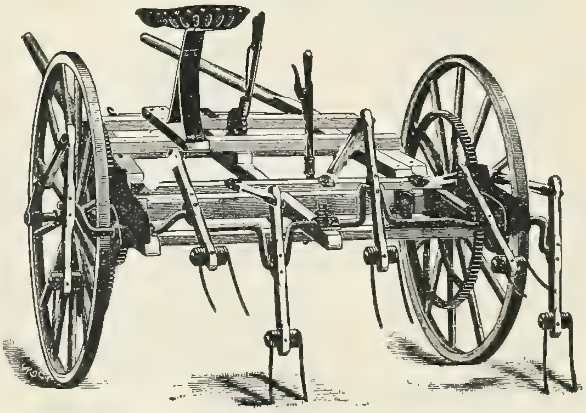
PRICE, - - $125.00

THE MONARCH STEEL HAY TEDDER with Center Chain Drive.



The Monarch Steel Hay Tedder shown above is the latest thing out for a Chain Driven Tedder. It is made of first-class steel by skilled workmen. The Wheels are extra heavy channel tire with staggered steel spokes. The Frame is made of continuous steel angle bars in one solid piece, no spliced corners, no bolts, or rivets to get loose. It has great strength at all points. The Crank Shaft is made of the very best tool steel with turned bearings, and broad journal boxes. The Fork Arms are made of boiler tube, and relief coil crucible steel spring is provided for each tooth. It has a double seat support and separate levers for throwing in and out of gear and for raising and lowering the teeth, both within easy reach of the driver. Has six forks, combined pole and shafts to be used with one or two horses. Price, **$32.00.** Discount for cash, $2.00.

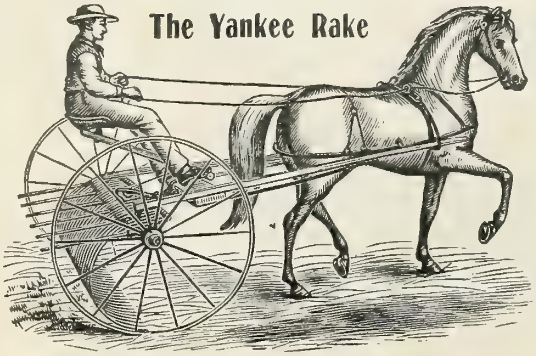
THE BAY STATE WOOD FRAME HAY TEDDER.



The Bay State Wood Tedder, shown above is, in construction, similar to the Bay State Steel Frame, only wood is used in place of steel. On stony ground, we would recommend this tedder as we believe the wood wheel will wear longer than the steel. The Forks of this tedder are made of crucible steel and the Fork Arms are made of the best hard wood. It has two levers the same as the steel frame. Also has combined pole and shafts, so it can be used for one or two horses. It is the best wood hay tedder there is on the market, and we do not see how we could improve on it, if we charged double the price. We can furnish this tedder with six and eight forks.

Price, 6 Fork, **$28.00.** 8 Fork, **$30.00.** Discount for cash, $2.00.

The Yankee Rake

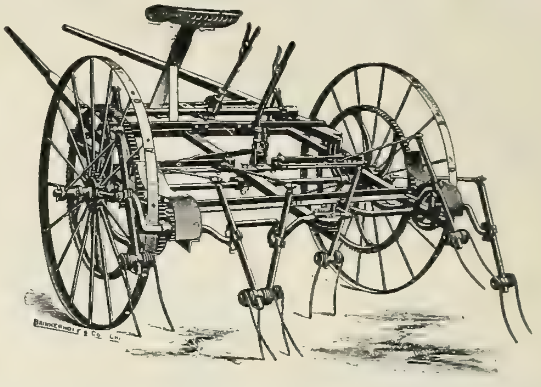


This is the old reliable Yankee, which needs no introduction. It is a very easy rake to operate, each tooth being independent; it will pass over large stones without breaking the teeth. It is so easy to operate that a child can handle it.

List price, **$22.00.**

Discount for cash, $2.00.

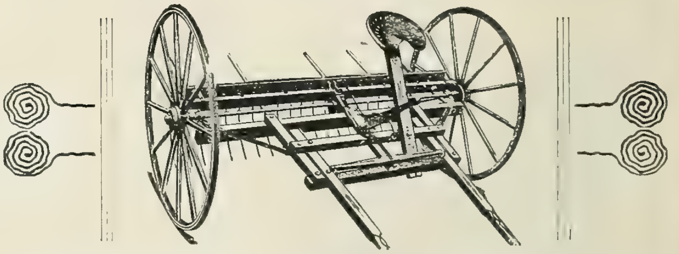
The Bay State Steel Frame Hay Tedder.



This is the neatest, finest and most substantially mounted steel frame hay tedder on the market. It is mounted upon a substantial steel wheel with a solid steel axle extending from wheel to wheel. It is made of angle steel in one solid piece, no spliced corners, no bolts, or rivets to get loose. The center is built on T steel which gives it great strength in every direction. The Crank Shaft is made of the very best steel with combined bands, also has broad boxes. The Forks and Fork Arms are made of crucible spring steel, it is also provided with a very comfortable spring seat; levers for raising and lowering, throwing in and out of gear and are in easy reach of the driver. It has a combined pole and shafts so that it can be used with either one or two horses and the change can be made very quickly. It has six forks.

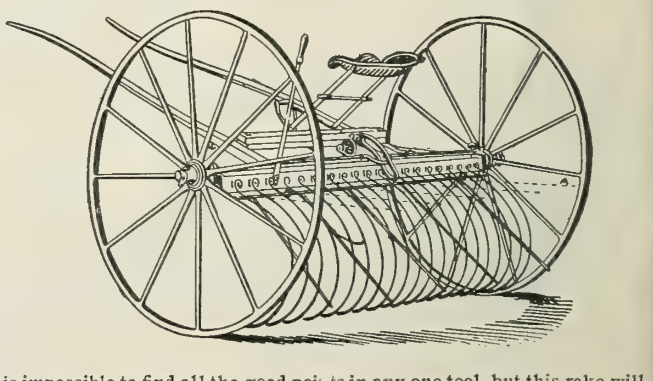
Price, **$30.00.** Discount for cash, $2.00.

THE TIGER RAKE.



This rake has been sold in New England for the past fifteen years, and has given the best satisfaction probably of any rake on the market. It has a steel axle running the entire length of the rake, and the material used is of the very best; has horse and hand dump. It is simple, easily handled by one large enough to drive a horse, and without doubt the most durable rake ever put on the market. List price, **$22.00.** Discount for cash, $2.00.

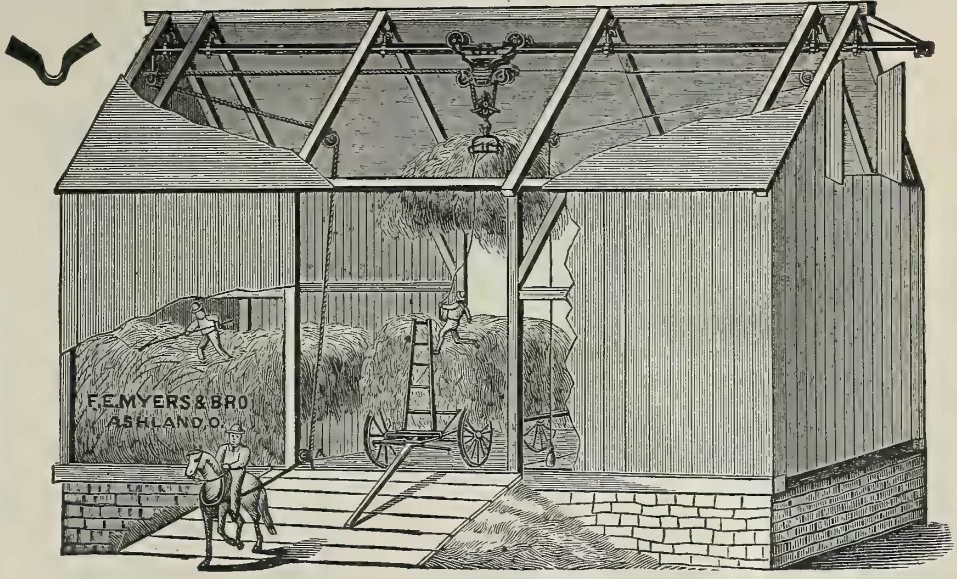
NEW YORK CHAMPION RAKE.



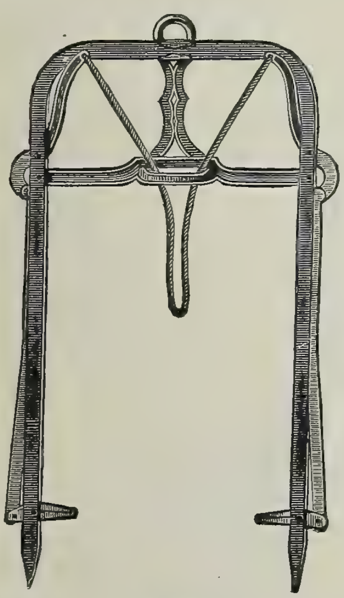
It is impossible to find all the good points in any one tool, but this rake will properly rake green hay and aftermath better than any other rake. It has the sled runner tooth, is a self-dumping rake, and is easily operated by any one capable of driving a horse. There are several imitations on the market. Be sure and get the GENUINE. List price, **$20.00.** Discount for cash, $1.00.

Myers Reversible Steel Track Hay Carriers.

No Barn Is Complete Without One of These Rigs.

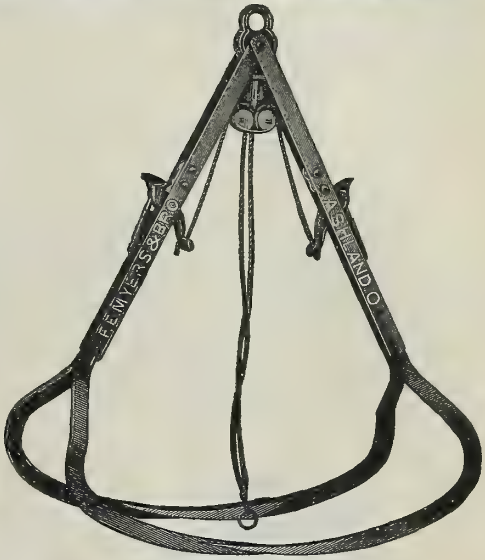


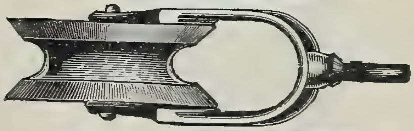
The Myers Carriers for rod, wood, or steel track are the most durable and easiest rigs to operate of any on the market. Any one with a hammer and wrench can rig his barn as well as an expert carpenter. We furnish everything necessary for rigging any style of barn. If you will send us the length and height of your barn and style of ridge pole, will name you price for complete job.

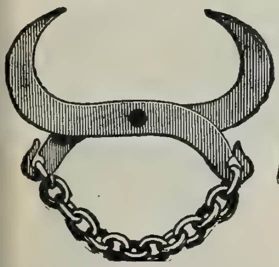


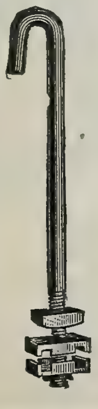
PRICES.

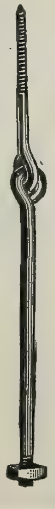
Reversible Carrier, each,	$5.00
One Way Carrier, each,	4.50
Wood Track Carrier, each,	4.50
Steel Track, per foot,	.13
Steel Hanger Hooks, per dozen,	1.00
Malleable Iron Rafter Brackets, per doz.,	.50
Jointed Hanger Hooks, per dozen	1.25
Four Tine Grapple Forks, each,-	4.00
Six Tine Grapple Forks, each,	5.00
Double Harpoon Forks, each,	1.00
Knot Passing Pulleys, each,	.25
Common Pulleys, each,	.20
Rope Hitch, each,	.25
Floor Hooks, each,	.10
Steel Grapple, each,	.50

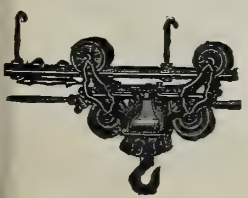


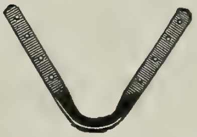


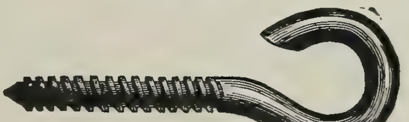


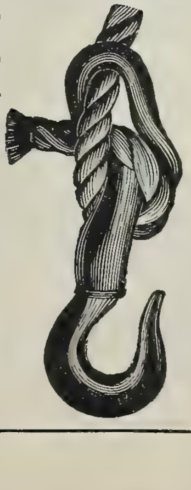


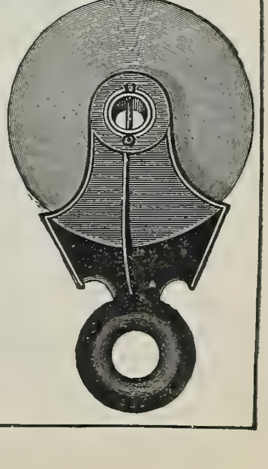






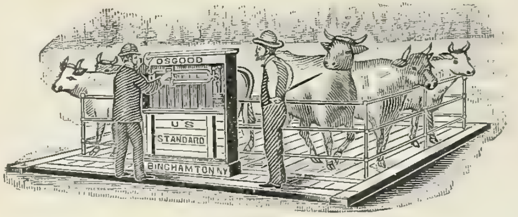






THE "OSGOOD"

U. S. Standard COAL, HAY AND FARM SCALES.



There is no better scale on the market than the **OSGOOD.** We have had one of them in constant use in our seed room for fifteen years, and it is as good, apparently, as when new.

Every OSGOOD Scale warranted to be an accurate United States standard scale, and to last as long as any other scale of like capacity in like location.

Beams (single, double or combination), of extra heavy polished brass, with sliding poise.

Send tor free Catalogue and Descriptive Sheet, and Discount.

PRICE WITHOUT LEVERS.

Wood Levers to be Furnished by the Purchaser. All Metal Parts Complete, and Beam Box Furnished at These Prices.

No.	Tons Capacity.	Size of Platform.	Distance from Edge of Platform to Beam Rod.	Single Beam.	Double Beam.	Triple Beam.	Approximate Shipping Weight.
1	3	7x13	2 ft.	$45.50	$47.50	$55.50	lb. 225
2	3	8x14	2 ft.	45.50	47.50	55.50	225
3	4	8x14	2 ft.	50.50	52.50	60.50	250
4	5	8x14	2 ft.	55.50	57.50	65.50	250
5	5	10x15	1 ft. 7 in.	57,50	59.50	67.50	250
6	6	8x15	2 ft. 6 in.	62.50	67.50	74.50	300
7	6	8x22	2 ft. 1 in.	82.50	87.50	94.50	500
8	10	8x14	2 ft.	87.50	92.50	102.50	350
9	10	9x18	2 ft.	102.50	107.50	117.50	500
10	10	8x22	2 ft. 1 in.	107.50	112.50	122.50	500
11	10	12x22	2 ft.	117.50	127.50	137.50	525
12	15	8x15	2 ft. 6 in.	122.50	132.50	142.50	400
13	15	8x22	2 ft. 1 in.	142.50	152.50	162.50	550

Extension levers to 5 feet and inclusive from the edge of platform, $5.00 net, and $1.00 per foot additional net over and above 5 feet.

Other sizes can be furnished at a small advance.

Above prices are exclusive of timber and foundation, which are to be furnished by the customer.

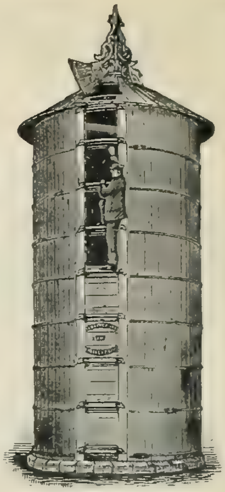
Beam Boxes are built complete, nicely painted and lettered, and included in the above prices.

For scales without beam box, deduct $1.50 net after making discounts. Write for Discount.

Discount 33 1-3 Per Cent.

—THE—

MODERN SILO.



Silos have been in use for the past 25 years, but not until within two or three years has the round silo been on the market, but in that short time farmers have come to the conclusion that it is the only shape a silo should be built, as there are no corners where the silage can spoil. The storing of silage is no longer an experiment, and it is not a question of whether you can afford one, but which kind shall you buy. The **Dirigo Silo,** which we sell, is made for us by one of the oldest and most reliable manufacturers of wood tanks in the country, and they know how to build a silo for the least money.

Write for Illustrated Catalogue and Discount.

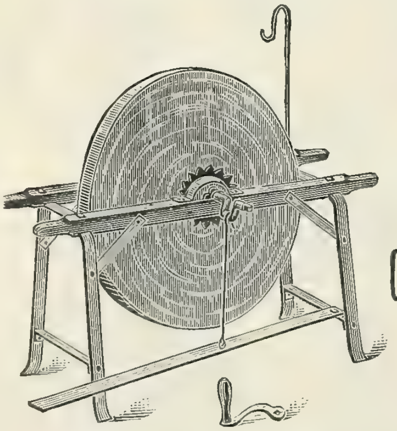
PRICE LIST.

Made of Cypress, Pine, Spruce and Hemlock.

Diameter.	Height.	Capacity.	Acreage to fill 15 tons to the acre.	Cows it will feed 6 mos.; 40 lbs. day.	List.
10	20	28	2	8	$150.00
12	20	40	3	11	174.00
12	24	49	3½	13	204.00
12	28	57	4	15	237.00
14	24	67	4½	17	240.00
14	28	78	5½	22	273.00
16	24	86	6½	24	267.00
16	26	95	7	26	291.00
16	30	108	8	29	321.00
18	30	138	10	37	372.00
18	36	166	12	45	447.00

Discount on Pine and Spruce, 35%. On Cypress, 5%. This list does not include the Cover.

List on Covers. 10-foot, $27.00; 12-foot, $33.00; 14-foot, $42.00; 16-foot, $54.00; 18-foot, $75.00. Discount same as on Silos.



R. B.

Mounted Grindstones

This is the best low-priced grindstone on the market. The stone is best Borea Grit (Ohio), the legs are iron, which will not rot if left out during haying, the wood side pieces are painted bright vermilion, and the hangings made interchangable. It is a very handy stone to move from one place to another.

No. 1.	Stone weighs about 100 lbs	$5.00
No. 2.	" " " 80 lbs	4.50
No. 3.	" " " 60 lbs	4.00

Discount for cash, 50c.

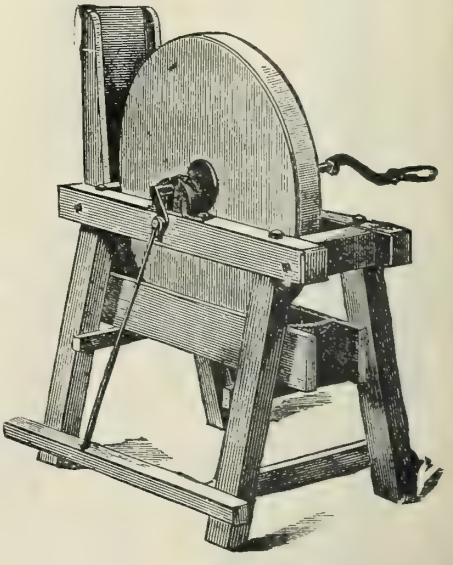
THE HECLA

OAK FRAME GRINDSTONE.

◉ ◉ ◉

This stone we have made for us, and it is as good a stone as money will buy. It is furnished with a best *Nova Scotia* stone, the frame is very strong and made of oak, has both crank and foot treadle, with trough and protector.

◉ ◉ ◉

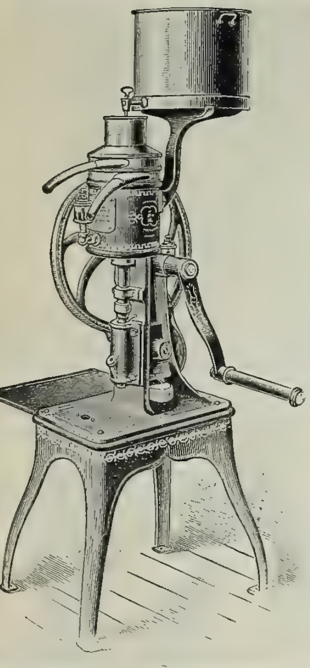


Size.	22 in.	List Price, $7.25.	**Net Price,** $6.00
"	24 in.	" 8.00.	" 6.50
"	26 in.	" 8.50.	" 7.00
"	28 in.	" 9.00.	" 7.50
"	30 in.	" 10.00.	" 8.00

The De Laval "Baby" Cream Separator and other Dairy Goods.

Used by all the Leading Agricultural Colleges and Experiment Stations.

The purpose of the Cream Separator is the expeditious and complete separation of cream from milk in the most practical manner possible. This Separator consists of a cylinder-shaped steel bowl or vessel, encased within and mounted upon a frame provided with a suitable gearing to acquire a high speed with a minimum expenditure of operating power. The whole-milk is fed into this bowl, the separation effected within it, and the cream and skim-milk are separately discharged from it, the discharge following within half a minute after the in-flow, while the machine may be used for a few minutes or as many hours—at a time—as may be necessary, according to the amount of work to be done.



Improved "Baby" No. 1.

Iron Stool Style.

De Laval Cream Separator.

Capacity, 325 to 350 lbs. per hour.

"Alpha" or "Disc" Bowl Type. **Price, $100.00**

Crank Humming Bird.

New Style No. 0.

De Laval Cream Separator.

Capacity, 225 lbs per hour.

"Alpha" or "Disc" Bowl Type. **Price, $65.00**

Improved "Baby" No. 2.

High-Frame Style.

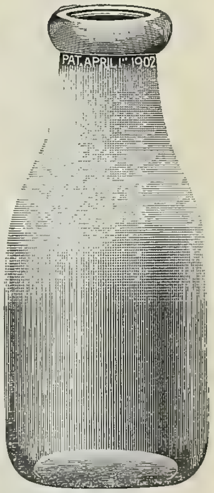
De Laval Cream Separator.

Capacity, 450 to 500 lbs. per hour.

"Alpha" or "Disc" Bowl Type. **Price, $125.00**

We can furnish either style of stool on Nos. 1 and 2. Send for large catalogue.

The R. B. or Round Bottom Milk Bottle.



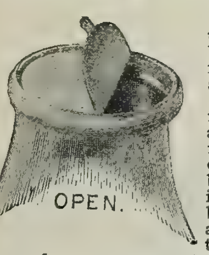
This Bottle is a great improvement over any other style of bottle made, from the fact that it has no corner for the dirt to stick in. The bottom inside being made round, it cleans very easily. We have them made expressly for us, and every bottle is extra quality glass, and stamped on the side "This bottle to be washed and returned."

Every bottle has "R. B." on the side, which is a guarantee that it is the best bottle made.

PRICES:

Two Quart, per doz.	$1.50 ;	per gross, $16.00
One " "	.75 ;	" 8.00
Pint, "	.60 ;	" 7.00
One-half Pint, "	50 ;	" 5.00

The Health Milk Bottle Caps.



All caps, other than the Health Cap must be removed with a fork, knife or some sharp instrument.

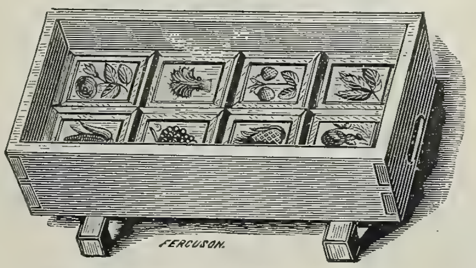
They cannot be removed with the thumb and finger. When once released the old-style cap is almost invariably thrown away, leaving the contents of the bottle exposed to odors, and in no way meeting the objectionable features of an open receptacle. It costs no more than the ordinary cap. It will fit any standard milk bottle. It makes sealing and opening of bottles easy. Bottles can be kept sealed at all times. Keeps milk free from all odors. It is the most convenient cap on the market.

No knife or fork is needed to remove the Health Cap.

Price per 1000, 40 cents; 5000, 35 cents; 25,000, 33 cents.

Common Round Caps, 1000, 30 cents; 5000, 25 cents.

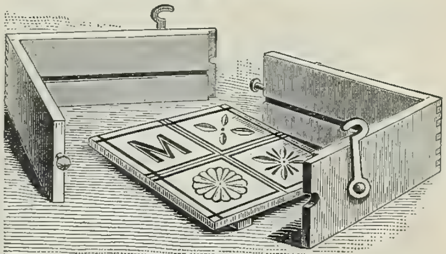
Combination Butter Print.



The cut shown represents No. 6 Print.

No of Pr't.	No. of Cakes at each impression.	Capacity of Moulds in Pounds.	Capacity of each Cake in Ounces.	Dimensions of Mould in inches.	Dimensions of each Cake.	Price.
1	3	1½	8	10 x3½	3½x3½	$3.50
2	4	2	8	11 x3¾	3¾x2¾	3.75
3	4	2	8	12 x3	3 x3	3.75
4	4	1	4	4½x5	2¼x2½	3.50
5	4	1	4	10x2½	2½x2½	3.75
6	8	2	4	10x4½	2¼x2½	4.50
7	6	1½	4	10x3½	3½x1¾	4.25

Blanchard Butter Mould.



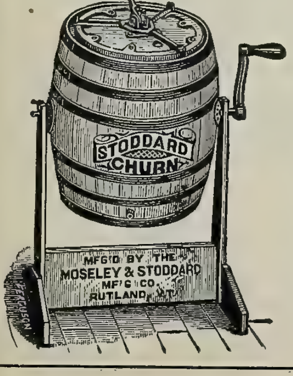
Same size as No. 4 Combination.
Initial engraved 25 cents extra.

PRICES:

One-half lb.	$ .80
One lb.	1.00
Two lbs.	1.25

THE STODDARD CHURN.

The Stoddard Churn is made by hand in the most thorough manner and of kiln-dried white oak. It will last for years. The principle is concussion, not friction—has no float nor paddle inside. It is easily operated, easily cleaned.

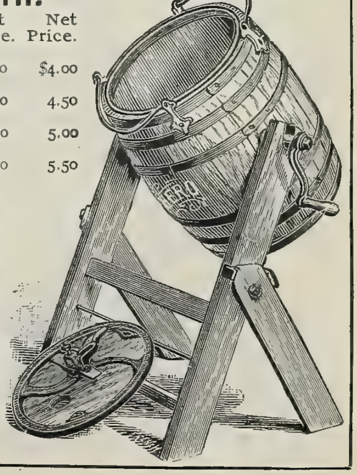

STODDARD CHURN
MFG'D BY THE MOSELEY & STODDARD MFG CO. RUTLAND, VT.

PRICES—DAIRY SIZE.

	List Price.	Disc't for Cash.
No. 1 holds ten gallons; churns 4 gallons,	$ 8.00	$1.00
No. 2 holds fifteen gallons; churns 7 gallons,	9.00	1.00
No. 3 holds twenty gallons; churns 9 gallons,	10.00	1.25
No. 4 holds twenty-five gallons; churns 12 gallons,	12.00	1.50
No. 5 holds thirty-five gallons; churns 16 gallons,	14.00	1.75
No. 5½ holds forty-five gallons; churns 20 gallons,	17.00	2.00
No. 6 holds sixty gallons; churns 28 gallons,	20.00	2.50

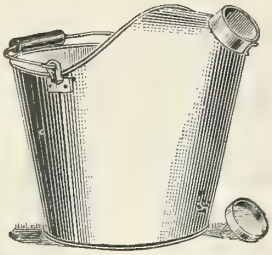
The Hero Barrel Churn.

	List Price.	Net Price.
No. 0 holds 6 gallons; churns 3 gallons, weight, 33 lbs.,	$ 8.00	$4.00
No. 1 holds 10 gallons; churns 4½ gallons; weight, 36 lbs.,	8.50	4.50
No. 2 holds 15 gallons; churns 7 gallons; weight, 40 lbs.,	9.00	5.00
No. 3 holds 20 gallons; churns 9 gallons; weight, 52 lbs.	10.00	5.50
No. 4 holds 25 gallons; churns 12 gals.; weight, 72 lbs.,	12.00	6.00
No. 5 holds 35 gals.; churns 16 gals.; weight, 90 lbs.,	16.00	8.00
No. 6 holds 45 gals.; churns 22 gals.; weight 102 lbs.;	23.00	11.50
No. 7 holds 28 gals.; churns 12 gals.; weight, 115 lbs.,	26.00	13.00



This Churn is made of the best oak timber, has patent adjusting fastener for cover, does same work as other churns of this style, but sold at a much lower price.

Common Sense Milk Pail.

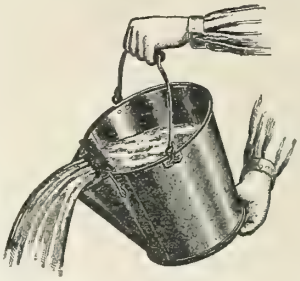


This pail is made of extra heavy tin. The strainer can be removed to clean or repair, and it is the best pail for all purposes made.

Price, **$1.25.**

The Gem Combination Milk Bucket.

With Removable Strainer.

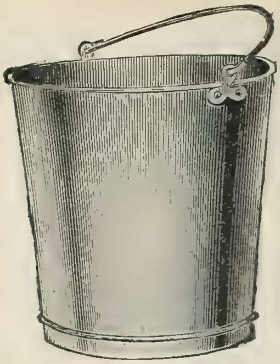


It has no equal in its simplicity. Made of the best IX Tin, with Steel Strainer Frame. The Gem Combination Milk Bucket can be used for milk with strainer, or the strainer can be removed by a single turn of the latch and the bucket used for any other purpose. The Strainer is constructed of Steel, with Fine Brass Wire Cloth, and can be readily converted into a cloth or muslin strainer by simply covering the frame with the cloth and inserting the frame in place.

PRICES.

10 Quarts, each, 60c. 12 Quarts, each, 70c.
14 Quarts, each, 80c.

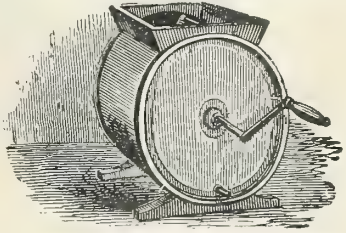
Iron Clad Milk Pail.



The I. C. Milk Pail is for dairy use. It is a special pattern. The seams are all soldered inside, and wire at the top. It has a rim to protect the bottom which serves as a handle in tipping.

Price, 14 Quarts, 70c. 12 Quarts, 60c.

Varnished Cylinder Churns.

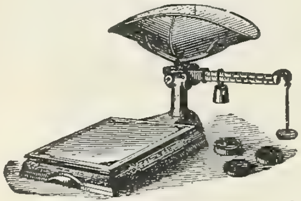


Designed for those having a small dairy.

No. 1.	List price, $2.50	Discount for cash, $ .75
No. 2.	List price, 3.00	Discount for cash, .75
No. 3.	List price, 3.50	Discount for cash, .75
No. 4.	List price, 4.00	Discount for cash, 1.00

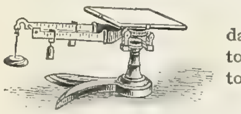
Cedar, same as above, 25 cents extra. They are well worth the difference.

Farmers' Scales.



We offer for the use of farmers and dairymen and housekeepers, a convenient and low-priced scale, warranted accurate, weighing from ½ oz. to 240 pounds. **Single Beam, $4.00; Double Beam, $4.50.**

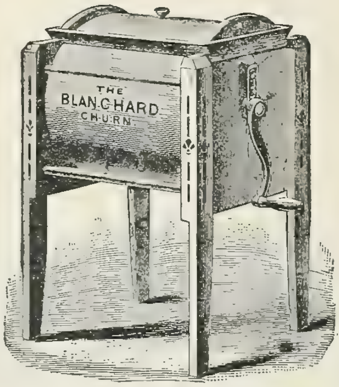
Fairbanks' Dairy Scales.



Indispensable for the dairy; has porcelain top; weighs from ¼ oz. to 25 pounds.

Net Price, $9.00.

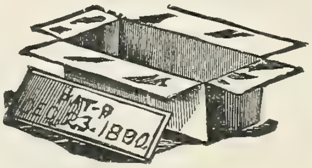
The Blanchard Churn.



Has retained its reputation for over twenty years as being the best revolving dash churn made for ease of operation and superior butter-making qualities. Factory sizes quoted on application.

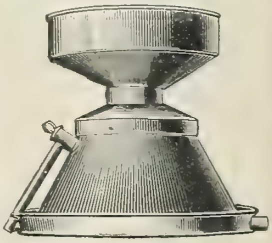
No. 3.	Churns 2 gal.	$6.00	No. 6.	Churns 12 gal.	$10.00
No. 4.	Churns 4 gal.	7.00	No. 7.	Churns 16 gal.	12.00
No. 5.	Churns 8 gal.	8.00			

Butter Boxes.



The Dumas square box holds five pounds; the only box that butter can be turned out of and left in good shape. Price, per dozen, all papered, 75 cts. We also have the five and ten pound boxes at 60 cts. per dozen for five pound, and 75 cts. for the ten pound.

The Ideal Milk Cooler.

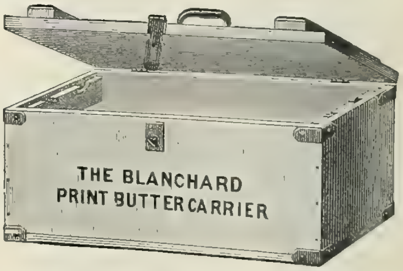


The Ideal Milk Cooler and Aerator does what no other cooler does, namely, thoroughly cools the milk and at the same time aerates it perfectly, so that it is ready to ship or peddle at once. No time is lost in stirring morning's milk and getting it ready for customers, as it is cooled as fast as milked.

No. 2.	Suitable for 10 to 15 cows.	List price, $6.00
No. 3.	" " 25 to 40 cows.	" " 7.00

Discount for cash, $1.00.

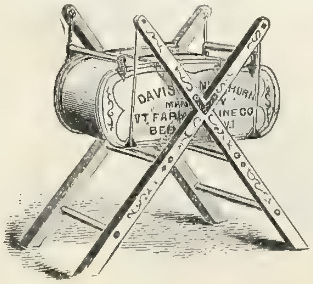
The Blanchard Print Butter Carrier.


THE BLANCHARD PRINT BUTTER CARRIER

This Carrier is designed for use of dairymen who deliver their butter direct to the consumer. They are also used in shipping butter by express. Trays are made to fit butter moulded in the Blanchard or Combination No. 6 Moulds. They are well made and very strongly iron bound. PRICES.—16 lb., each, $1.50; 24 lb., each, $1.65; 32 lb., each, $1.85; 40 lb., each, $2.00. Fitted with Ice Box, 75 cents extra.

THE DAVIS SWING CHURN.

The principle governing the process of butter-making in the Davis Swing Churn is that the particles of cream come in contact with each other only, and are not unduly beaten by floats.



Price List—Complete, with Folding Frame, as shown.

This is the regular frame, and is always sent unless specially ordered otherwise.

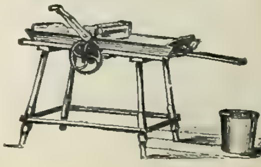
Extra for Tilting Frame, $1.00.

Size.	Will Churn.	Wgt. lbs.	Price.
No. 1.	4 gal. or less.	55	$ 7.00
No. 2.	5 "	59	8.00
No. 3.	8 "	73	10.00
No. 4.	10 "	85	12.00
No. 5.	13 "	98	15.00
No. 6.	17 "	112	18.00
No. 7.	30 "	258	25.00
No. 8.	40 "	275	30.00
No. 9.	50 "	345	35.00

Waters Butter Worker.

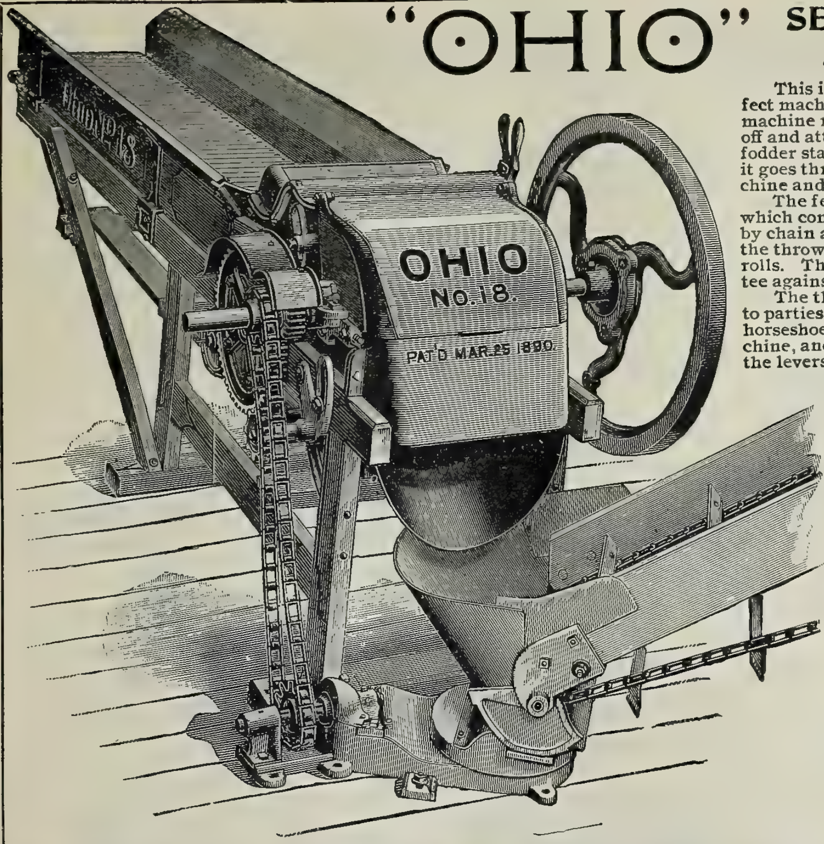
The purpose of working butter is to free it from buttermilk and distribute the salt evenly through it. The Waters differs from most butter workers principally in the point that the tray, with the butter, moves under a stationary roller instead of the roller travelling over the butter in the tray.

	Capacity.	List Price.	Dis. for Cash.
No. 0.	1 lb. to 15 lbs.	$ 7.00	$1.00
No. 1.	5 lbs. to 30 lbs.	8.00	1.00
No. 2.	5 lbs. to 40 lbs.	9.00	1.25
No. 3.	5 lbs. to 50 lbs.	10.00	1.50
No. 4.	10 lbs. to 80 lbs.	14.00	1.75



"OHIO" SELF-FEED ENSILAGE CUTTER,

AND NEW METAL STRIP SWIVEL CARRIER.


OHIO No 18
OHIO
No. 18.
PAT'D MAR. 25 1890.

This is the "Ohio" Ensilage cutter with travelling feed table. It is a perfect machine for cutting ensilage and dry feed. Cutting ensilage with this machine requires one man to throw off the wagon, one man to help throw off and attend to the machine. One or two men constantly pushing to get the fodder started is not necessary. The only point is to get it to the machine—it goes through itself. It will cut 33⅓ per cent. more than the regular machine and saves 75 per cent. of the feeder's time and labor.

The feed table is supplied with a continuous travelling chain or belt apron which converts the machine into a self-feeder. The travelling apron is driven by chain and sprocket wheels and is under control of the feeder by means of the throw-out lever located just in the rear of the lever that controls the feed rolls. The apron travels on five pairs of sprocket wheels, which is a guarantee against wear.

The throw-out levers are strong points of advantage, as it is well known to parties familiar in the use of such machines, that occasionally a pitchfork, horseshoe, or some other foreign substance mysteriously strays into the machine, and about the time it reaches the knives the feeder has only to catch the levers and throw the feed out.

SIZES AND PRICES.

No.	Number Knives.	Length Knives, Inches.	Lengths of cut, Inch.	Capacity Ensilage per Hour, Tons.	Power to Run Full Capacity, Horse Power.	Price.
13	4	13	¼, ½, ¾, 1	5 to 8	4 to 6	$ 95.00
16	4	16	¼, ½, ¾, 1	8 to 10	6 to 8	120.00
18	4	18	¼, ½, ¾, 1	10 to 13	6 to 10	155.00
20	4	20	¼, ½, ¾, 1	15 to 20	8 to 12	250.00
24	4	24	¼, ½, ¾, 1	20 to 25	10 to 12	300.00

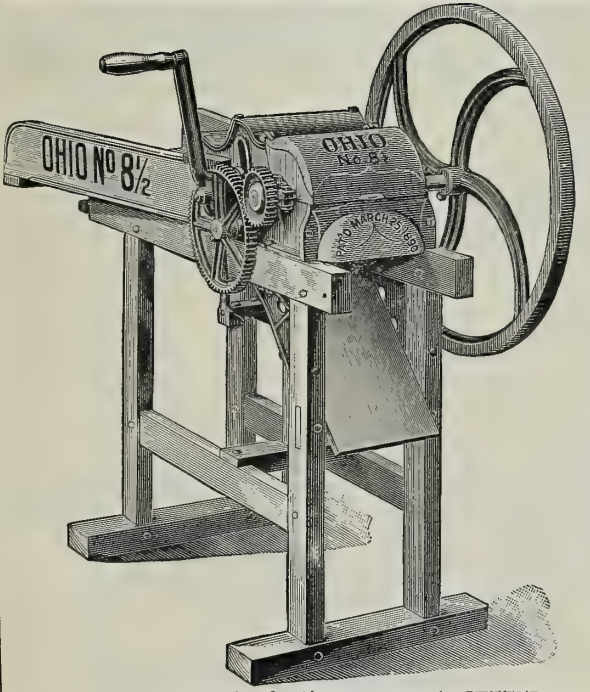
NEW METAL-STRIP SWIVEL CARRIERS.

SIZES AND PRICES.

For			
No. 13 Cutter, 12 ft. long,	$45.00	Over 12 ft. long, extra per ft.,	$1.70
No. 16 Cutter, 12 ft. long,	45.00	Over 12 ft. long, extra per ft.,	1.70
No. 18 Cutter, 12 ft. long,	45.00	Over 12 ft. long, extra per ft.,	1.70

We also carry in stock the No. 11 and No. 13 Cutters with Standard table. These are both Power Cutters and are equal in every way to the above only they do not have the travelling table but list at a much lower price.

No. 11 Cutter, 4 knife.	List, **$45.00**
No. 13 Cutter, 4 knife.	List, **65.00**



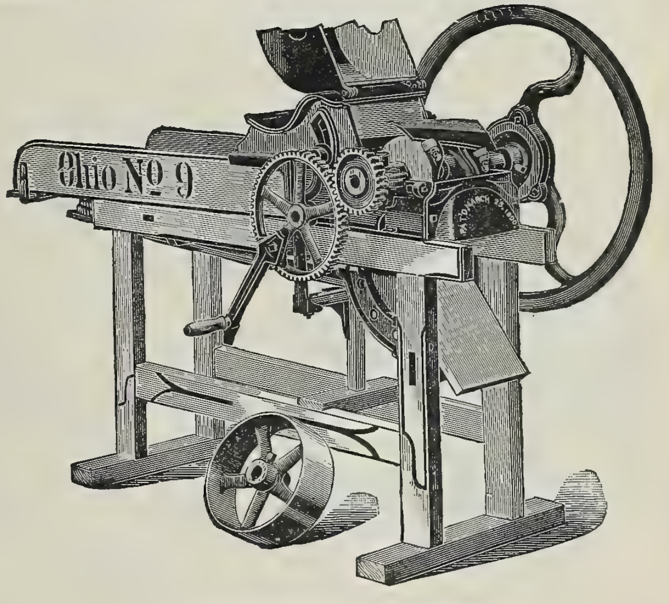
THIS is one of the best **Hand Cutters** and is designed for those without power. It can be changed to cut different lengths and will answer for cutting for stock and poultry.

Nos. 8½ and 10½ HAND POWER CUTTER.

SIZES AND PRICES.

No.	Length of Knives, Inches	Number of Knives	Lengths of Cut, Inches	Price
8½	8½	1	½, ¾, 1½	$18.00
8½	8½	2	¼, ⅜, ¾	20.00
10½	10½	1	½, ¾, 1½	23.00
10½	10½	2	¼, ⅜, ¾	25 00

Discount, 33 1-3 per cent.



No. 9 HAND OR POWER CUTTER.

THIS is a medium size cutter adapted for farmers **having a large herd** to cut food for and can be run by hand to good advantage when for any reason they do not want to get up steam. **It is our best seller** for hand work.

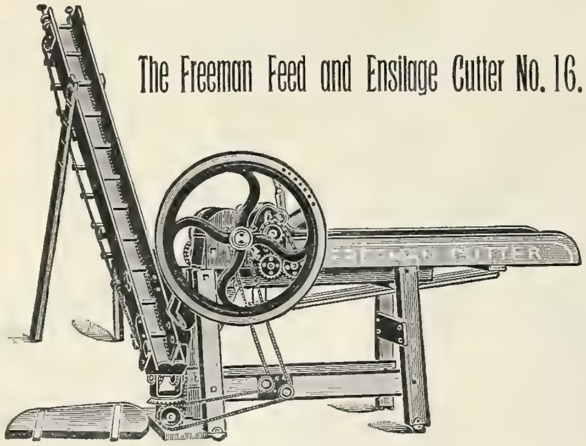
SIZES AND PRICES.

No. 9.	With safety fly wheel and pulley, two knives................	$35. 00
No. 9.	With safety fly wheel and pulley, four knives................	40.00
	When furnished with extended knife shaft to place fly wheel or pulley on either side, extra, list................	2.00

Discount, 33 1-3 per cent.

FREEMAN ENSILAGE CUTTERS AND CARRIERS. Both Common and Travelling Feed Table.

The Freeman Feed and Ensilage Cutter No. 16.



We can furnish 13, 16, 20 or 24 inch Cutter with Travelling Table.

The travelling table on this cutter reduces the labor of feeding more than one-half and enables the operator to feed the machine to its full capacity. The table must be used to be appreciated. These cutters are fitted with the adjustable cone feed gearing, the expansion gearing for driving the upper feed roll, the reversible cutting bar, and the safety stop lever for instantly stopping the feed for changing the length of cut without stopping the speed of the cylinder head.

We can furnish either swivel or straight-away carriers for these cutters, and the swivel carrier can be attached to nearly all other makes of cutters.

This cutter is fitted with four knives, each 16 inches long, and will cut either ¼-inch, ½-inch or ¾-inch long. Weight, 600 lbs.

Lis price, with Travelling Table, **$120.00**
List price, with Common Table, **90.00**

Discount, 40 per cent on all sizes of Cutters and Carriers.

❀ LIST PRICE OF OTHER SIZES AND STYLES. ❀

THE FREEMAN FEED AND ENSILAGE CUTTER NO. 13.

Four knives, each 13 inches, cuts ¼-inch, ½-inch, ¾-inch long. Weight, 550 lbs.

List price, Common Table, **$65.00**
List price, Travelling Table, **95.00**

FREEMAN CUTTER NO. 20.

With Travelling Table. - List price, **$250.00.**

THE FREEMAN FEED CUTTER NO. 11.

Four knives, each 11 inches. Will cut ¼-inch, ½-inch, ¾-inch or 1 inch long. Weight, 410 lbs.

List price, **$45.00.**

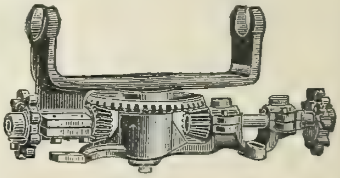
NO. 7 AND NO. 8 HAND CUTTERS.

No. 7 Cutter is 8½ inches, and No. 8 Cutter 9½ inches. Will cut ¼-inch, ⅝-inch or 1 inch long.

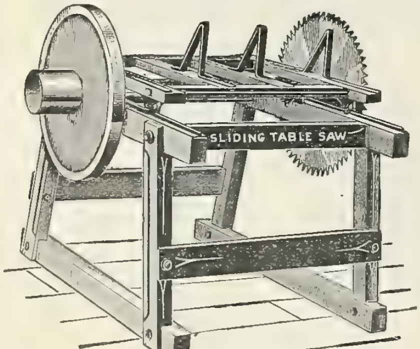
No. 8. Two knives. Weight, 155 lbs. List price, **$30.00.**
No. 7. Two knives. Weight, 150 lbs. List price, **24.00.**

SWIVEL CARRIERS.

	12 Feet long complete.		Additional Length, per foot.	
	Wt.	Price	Wt.	Price
For No. 11 Cutter	215	$32 00	6½	$1 50
For No. 13 Cutter	215	32 00	7½	1 60
For No. 16 Cutter	230	33 00	9	1 75
For No. 20 Cutter	310	36 00	12	2 00
For No. 24 Cutter	360	40 00	16	2 25



IMPROVED : WOOD : AND : POLE : SAWS : AND : FRAMES.



SLIDING TABLE WOOD SAW. Weight, 240 lbs.

The illustration shows our Sliding Table Wood Saw, the style used mostly, but we can furnish either the Sliding or Tilting Table Wood and Pole Saw. The Wood Saw will cut only four foot wood, while the Pole Saw will cut wood any length.

All Wood Saws are made to drop the wood on the right hand side, unless otherwise ordered.

As there are so many styles and sizes, we do not carry them in stock, but ship direct from the factory at price quoted. The extra 5 per cent for cash will about pay the freight.

REVISED LIST OF WOOD AND POLE SAWS.

Diameter of Saws.	Tilting Table. Wood Saws.	Sliding Table. Wood Saws.	Tilting Table. Pole Saws.	Sliding Table. Pole Saws.
20 inches	$40.00	$42.50	$47.50	$50.00
22 inches	42.50	45.00	50.00	52.50
24 inches	45.00	47.50	52.50	55.00
26 inches	47.50	50.00	55.00	57.50
28 inches	50.00	52.50	57.50	60.00

Discount from List, 40 per cent. 5 per cent cash with order.

CORN FODDER. ITS VALUE, and How to Handle and Feed It to the Best Advantage and Greatest Profit to the Farmer.

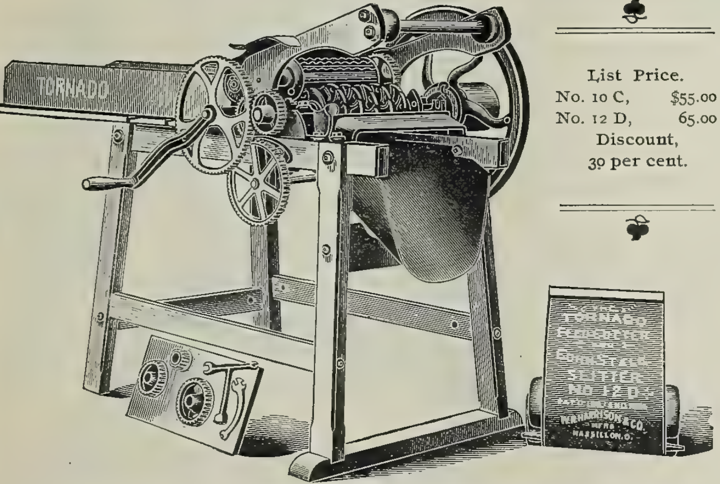
CORN FODDER is taking such a prominent place among rough feeds that the greatest effort should be put forth in trying to discover and bring into general use the best modes of handling and the most economical methods of feeding it. Until within a few years past but little attention was paid to this matter, but since the hay crop has become so uncertain almost every farmer has learned that it is one of the best rough feeds for horses, cattle and sheep. It has been accurately determined by experimenters that the food value of an acre of Corn Fodder, properly taken care of and utilized, is as great as an acre of hay.

The VALUE of the Corn Fodder is not in the blades nor in the husks, BUT IN THE STALK, as has been proven by so many of our farmers and by our different State experimental stations. It is, therefore, necessary to use some kind of a shredder that will not only cut but split the stalk at the same time. This the TORNADO CUTTER will do.

The cutting arrangement of the Tornado is made up of a series of little knives following each other spirally on the shaft, which, when in motion, gives a spiral movement. This peculiar motion cuts, splits and reduces the corn stalk to a soft, pulpy condition, leaving no hard or sharp edges to hurt the mouth of the animal and cause sore gums. This motion is also continuous and steady, there being no jerk or jar whatever, the advantage of which is very apparent.

We can furnish these machines in several sizes for both hand and power, and will mail, free, catalogue showing all sizes.

Improved Nos. 10 C and 12 D Combined Hand and Power Cutters.



List Price.

No. 10 C,	$55.00
No. 12 D,	65.00

Discount,
30 per cent.

Flat Feed Tables will be furnished with above cutters instead of feed troughs when so ordered.

These machines, as shown above, are built for both Hand and Power use, are of medium size, rapid sellers, and adapted to ordinary farm or dairy use. Both are arranged to cut ½, ¾, 1 and 1¼ inches, and when run by power should be given a speed of 1,000 to 1,200 revolutions of the cutting cylinder per minute, and in no instance when power is used should the speed fall below 1,000.

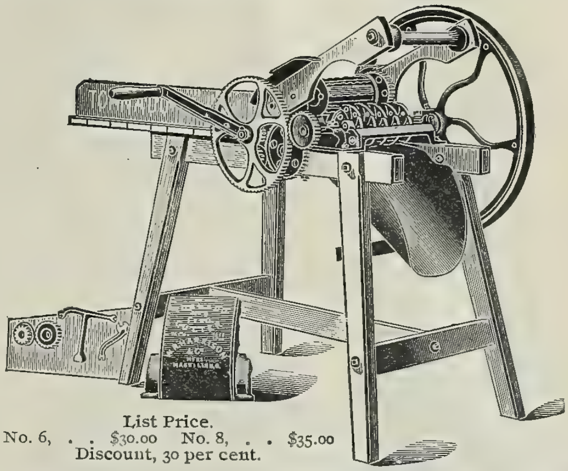
The No. 10 has a cutting cylinder 11 inches long and has a full 10-inch throat, while the No. 12 has a 13-inch cylinder and a full 12-inch throat. The No. 10, when run by power, has a maximum capacity of one to two tons of Hay or Dry Fodder and two to three tons of Green Ensilage per hour. The maximum capacity of the No. 12, when run by power, is two to three tons of Hay or Dry Fodder, and three to four tons of Green Ensilage per hour.

To attain the above results, it is, of course, necessary to give the cutters all the power and speed required, and feed them steadily and to their fullest capacity.

The power requisite for the No. 10 is one to two, and for the No. 12 three to four horse-power.

New and Improved No. 6 and No. 8 TORNADO.

FOR HAND POWER.



List Price.
No. 6, . . $30.00 No. 8, . . $35.00
Discount, 30 per cent.

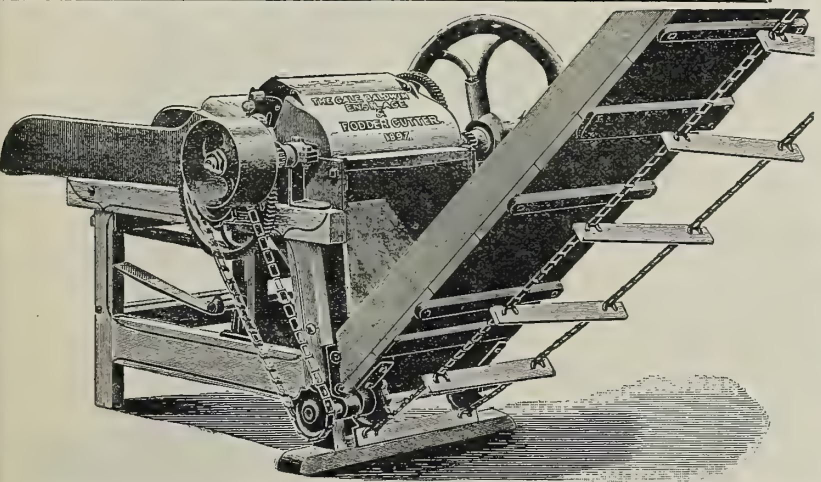
These are our latest and improved Hand Power Cutters. They are simply constructed, very rigidly built, and, we believe, are the easiest operated and lightest running hand-power cutters made.

The base of the cutting apparatus, which rests on the frame, and which includes the gear standard, crank standard and journal boxes, is cast solidly in one piece, thereby securing great rigidity and simplicity. This insures durability, and the cutter cannot get out of order easily.

The cutting cylinder of the No. 6 is 7 inches in length, and that of the No. 8 is 9 inches. Both cutters are arranged to cut ⅜, ⅝, ⅞ and 1¼ inches. The first three lengths, are, however, best adapted to Corn Fodder, and the 1¼ cut should never be used on fodder, being intended only for Hay or Straw.

GALE-BALDWIN ENSILAGE AND FEED CUTTER.

**Length of Knives in Inches same as Number of Machine.
Each Size made with TWO KNIVES.**


THE GALE-BALDWIN ENSILAGE & FODDER CUTTER 1897

In the construction of this machine are found all the good features of the Improved Baldwin Feed and Ensilage Cutter, which have made that well-known machine so popular. The Gale-Baldwin is a strong feeder, and cuts with great ease and rapidity. The Beecher's Patent Rotary Cutter Head is used exclusively on this machine, and its long use on the power Baldwin machine has proved its superiority over all other devices for ease of adjusting the knives and durability.

DESCRIPTION OF SIZES.

No. 16.—Capacity for ensilage, 2½ to 5 tons per hour. Power required, one to two-horse engine. Speed, 500 to 600 revolutions per minute. Cut, ¼, ½, ¾ or 1 inch. Pulleys and wheels interchangeable.

Price of Cutter without Carrier	**$60.00**
Straight Delivery Carrier, 12 feet long or under	**24.00**
Angle Delivery Carrier, 12 feet long or under, with New Spout Carrier	**32.00**
Over 12 feet, extra per foot	**1.50**
Safety Treadle Lever	**5.00**

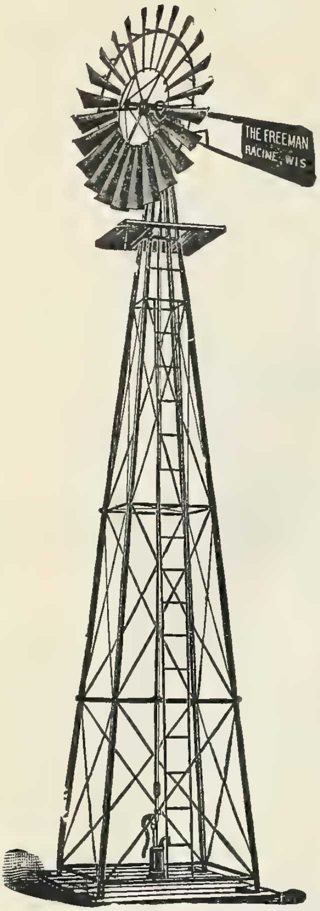
No. 18.—Capacity for ensilage, 50 to 100 tons per day. Power required, two-horse engine. Speed, 500 to 600 revolutions per minute. Cuts $\frac{3}{16}$, ⅜, ¾ or 1 inch. Gear also furnished to cut ½ inch if ordered.

Price of Cutter	**$100.00**
Straight Delivery Carrier, 12 feet long or under	**24.00**
Angle Delivery Carrier, 12 feet long or under, with New Spout Carrier	**32.00**
Over 12 feet, extra per foot	**1.50**
Safety Treadle Lever	**5.00**

No. 22 is a very large and heavy cutter, of great capacity. Power required, five to ten-horse engine. Length of cut same as No. 18. Price of machine, **$150.00** Straight Delivery Carrier, 12 ft. long or under, **$30.00.** Over 12 ft., per foot, **$2.00.** Safety Treadle Lever, **$6.00.**

Discount on Cutters, 30 Per cent. On Carriers, 20 Per Cent.

WIND, HORSE AND STEAM POWERS.



The Freeman Steel Windmill.

In designing these mills, great care has been used to obtain the greatest amount of power with the least amount of friction, and to secure a governing device which would be both effective and reliable. That we have succeeded is acknowledged by all who have used our mills, and we court a thorough examination by prospective purchasers.

List Price of Steel Pumping Mills and Towers.

Diameter of Wheels.	Weights.	Painted List Prices.	Galvanized List Prices.
8 feet	330 lbs.	$37.50	$42.50
9 feet	370 lbs.	40.00	47.50
10 feet	420 lbs.	45.00	52.50
12 feet	760 lbs.	82.50	90.00

STEEL POWER MILLS

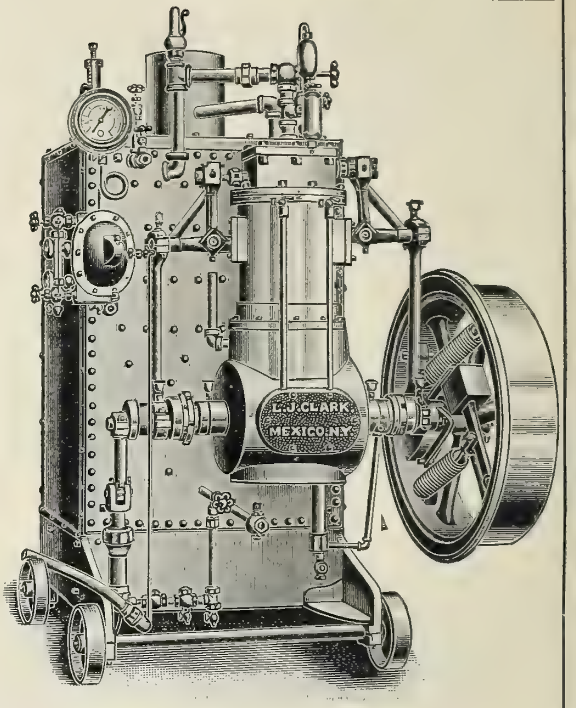
Diameter of Wheels.	Weights.	Painted List Prices.	Galvanized List Prices.
12 feet	800 lbs.	$ 87.50	$100.00
14 feet	1150 lbs.	120.00	140 00
16 feet	1600 lbs.	200.00	225.00

FOUR-POST ANGLE STEEL TOWERS

Height.	Weights.	Painted List Prices.	Galvanized List Prices.
20 feet	350 lbs.	$ 25.00	$ 28 50
30 feet	535 lbs.	36.00	42.50
40 feet	700 lbs.	47.50	58.50
50 feet	940 lbs.	60.00	78.50
60 feet	1180 lbs.	75.00	100.00
70 feet	1485 lbs.	92.50	125.00
80 feet	1800 lbs.	110.00	150.00

Discount, 40 per cent from List.

5 per cent extra for cash with order.



The Safe Engine and Boiler.

The boilers are made from the Best Flange Steel and Extra Heavy Charcoal-Iron Lap Welded Boiler Tubes. Tested to 240 pounds per sq. in. Hard or soft coal, or wood, such as old rails, knots, limb-wood, etc., will make all the steam wanted. Fire box takes in wood 20 in. long. Automatic draught, automatic oil; everything as simple as skill can make it.

Sizes and Prices:

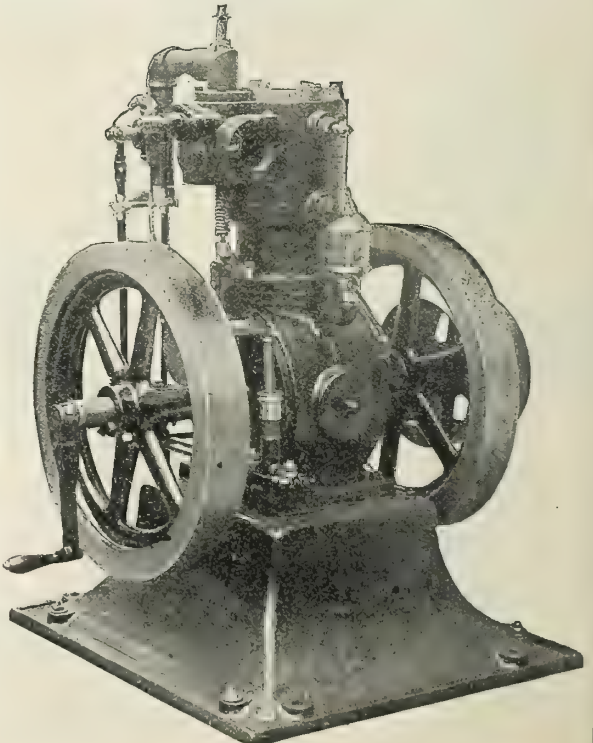
	List Price.	Net Cash.		List Price.	Net Cash.
3 Horse,	$250.00	$200.00	6 Horse,	$400.00	$325.00
4 Horse,	325.00	260.00	8 Horse,	450.00	375.00
5 Horse,	330.00	270.00	10 Horse,	500.00	425.00

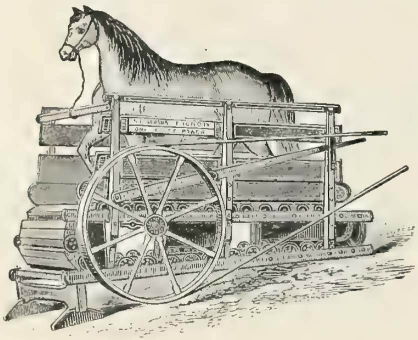
F. O. B. at factory. Freight charges to be paid by purchaser.

GREENDALE GAS ENGINE.

Since Gas Engines have been on the market we have been looking for one that we could recommend with perfect confidence to our customers as being a first-class machine. The Greendale is made here in Worcester and the manufacturers are thoroughly reliable parties, and it has been tested by several of our leading farmers in this county. We could print several testimonials which would convince any one in want of a Gas Engine that they were taking no chances in buying this one. It may be economy in some lines of tools and under certain circumstances to buy cheap or low priced goods, but on an engine, the best is none too good. Where your life is endangered, never take any chances by buying simply because you can save a few dollars. You may be able to save $50.00 or $75.00 in buying some other make, but it is liable to prove expensive and, perhaps, dangerous in the end.

At present we have only two sizes to offer, the 5 and 7-horse power. But we hope to have larger sizes when there is a demand for them. The list price of the 5-horse is **$250.00**, discount for cash, $25.00. The 7-horse is **$300.00**, discount for cash $30.00.



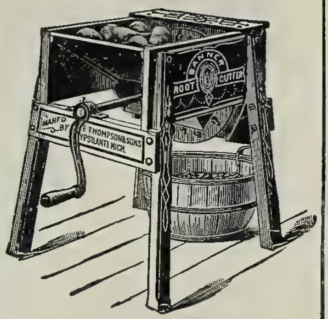


St. Albans Horse Powers.

We claim for this Horse Power an adaptability for farmers' use never equalled by any other power in the market. The study has been to so construct them that they should meet all their wants, and be easily adjusted to any and every use, particularly such as churning, sawing wood, and cutting hay and straw for feeding cattle and horses. It has of late been fully demonstrated that the farmer makes a large saving by cutting his hay, straw, stalks or other fodder, and mixing with the same a small portion of meal; and that he also gains very largely in the better condition of his stock.

One-Horse Power, with Speed Regulator, **$70.00.** Two Horse Power, with Speed Regulator, **$90.00.** Discount for cash, 5%.

The Banner Root and Vegetable Cutter.


BANNER
ROOT CUTTER
MANF'D BY E. THOMPSON & SONS YPSILANTI MICH.

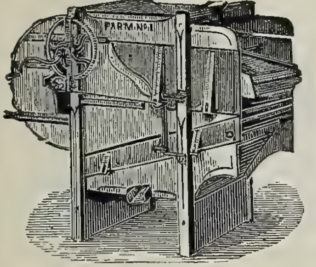
The "Banner" Root Cutter is, without question, the best ever invented. It contains features found in no other machine. It has a self-feeder; separates the dirt from the cut feed, and leaves the cut food in such condition that the stock cannot choke. The pieces ate cut in long half-round slices, and are not crushed, ground or torn; even young lambs can safely be fed with roots cut with the "Banner" Cutter.

PRICES.

No. 20.	Hand power, capacity 30 to 50 bushels an hour, ...	$11.00
No. 15.	The above fitted with pulley power, capacity 60 to 80 bushels an hour, ...	13.00
No. 16.	Power cutter, capacity 120 to 180 bushels an hour, ...	18.00

Discount for cash, $1.00.

The Centennial Fanning Mill.

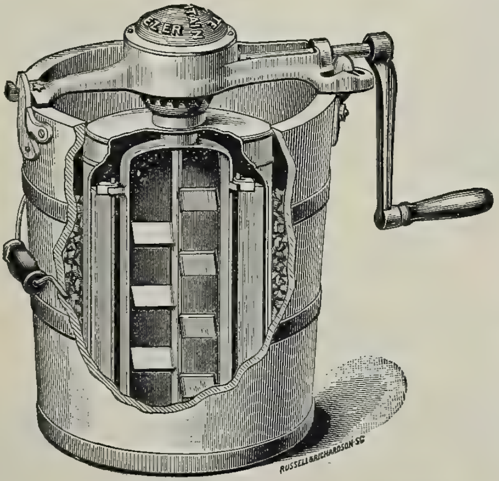


The Most Perfect Cleaner, Grader and Separator of all Grain and Seeds.

The Centennial is an excellent chaffer, having plenty of wind and shake. Having two shoes it carries more screens than any other mill in the market. It will separate oats and all seeds, such as pigeon grass, wild buckwheat, cockle, cheat, and other wild seeds from wheat at one operation. The best mill for all purposes in the market.

List Price, $20; discount for Cash, $4.

White Mountain Ice Cream Freezer.

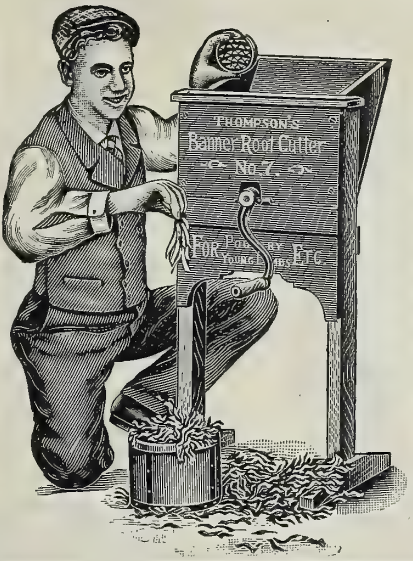


These Freezers are imitated, but not equalled. There are cheaper freezers in price than the White Mountain, but not so good.

2 quart, net price,	$1.75	10 quart, net price,	$5.75
3 quart, "	2.00	12 quart, "	7.25
4 quart, "	2.30	15 quart, "	8.50
6 quart, "	3.00	20 quart, "	11.00
8 quart, "	4.25	25 quart, "	13.50

No. 7, Banner Root Cutter.

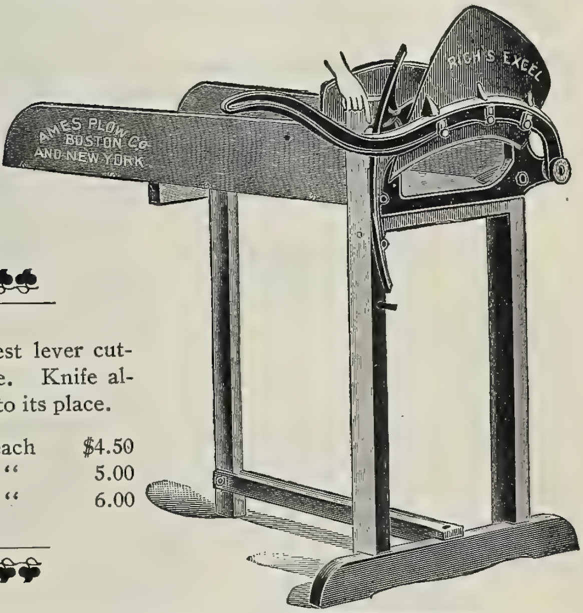
FOR POULTRY KEEPERS.


THOMPSON'S
Banner Root Cutter
No. 7.
FOR POULTRY YOUNG LAMBS ETC.

Cuts all kinds of Roots, Beets, Carrots, Turnips, Potatoes, Apples, etc., leaving them as fine as shavings. Vegetable treated in this way and fed in the winter, will not only produce eggs, but keep the poultry in a healthy condition. It is a fast cutter and easy to operate.

Net Cash Price, $5.00

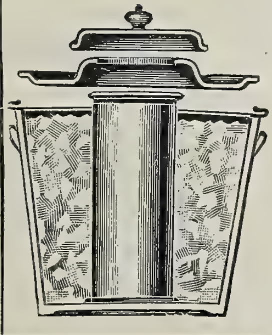
The Rich Lever Cutter.


RICH'S EXCEL
AMES PLOW CO. BOSTON AND NEW YORK

The best lever cutter made. Knife always up to its place.

No. A, each	$4.50
No. B, "	5.00
No. C, "	6.00

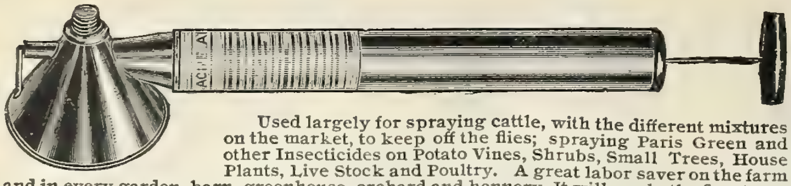
The XX Century Freezer.



The XX Century Freezer freezes in thirty to forty minutes without labor. No crank to turn; simply put the cream in the can, pack it with ice, and after stirring it two or three times let it stand, and you have as nice cream as ever was made. This freezer has been tested for two years.

Prices—2 quart,	$1.50
3 quart,	1.75
4 quart,	2.00
6 quart,	3.00

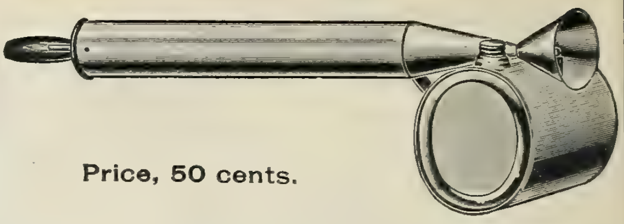
THE ACME ATOMIZER.



Used largely for spraying cattle, with the different mixtures on the market, to keep off the flies; spraying Paris Green and other Insecticides on Potato Vines, Shrubs, Small Trees, House Plants, Live Stock and Poultry. A great labor saver on the farm and in every garden, barn, greenhouse, orchard and hennery. It will apply the finest possible spray on any object desired and exterminate any kind of insect life. Weighs only one pound. Can holds one and one-half pints. Well and simply made of tin or brass, combined into the strongest possible shape, it cannot come apart, and easily cleans itself when turned upside down. Indispensable on every farm.

Price. Tin, 50c.; Tin, with Brass Cup, 75c.

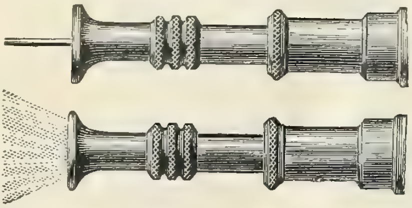
THE CYCLONE ATOMIZER.



Price, 50 cents.

Used for same purpose as the Acme, only has a larger capacity and has a funnel end to guide the spray. In these respects it is better than the Acme; in other parts just the same. Made in tin only.

The "Boston" Spray Nozzle.

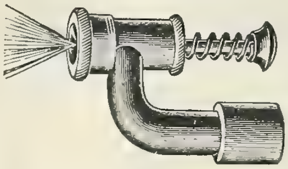


Will throw a coarse or a fine spray, a large or a small solid stream. The spray can be closely contracted or made to cover a large area. These results are obtained by revolving it part way round.

Price, - 35 cents.

IMPROVED VERMOREL NOZZLE

WITH DEGORGER.



Arranged with stuffing box, so that the liquid will not wet the operator while being used; fitted for 1-2 inch male end or 1-4 inch pipe. Each nozzle is furnished with two caps, with different sized openings, for coarse or fine spray. **Price, 85 Cents.**

MYERS' BRASS SPRAY PUMP.

This Pump has More Real Advantages than are contained in any other pump on the market.

This pump is constructed of material that is not affected by the poisonous arsenites used in the different formulas for spraying fruit trees, vines and shrubbery. The cylinder and all working parts are brass; has rubber ball valves, and is equipped with our Graduating Spray Nozzle, which will throw a spray as fine as mist. A great many pumps advertised for spraying are only sprinklers. Fig. 305 shows our latest Barrel Pump which is furnished with 8 foot extension pipe. feet of hose, graduating spray nozzle, and barrel. This outfit is large enough for an orchard and a rig that cannot be beaten.

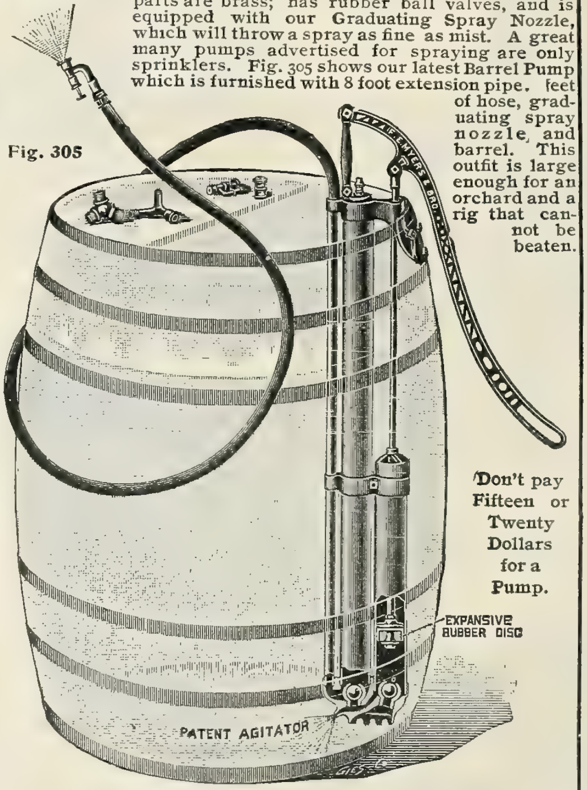
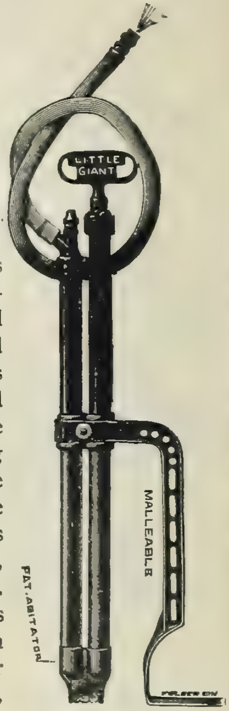


Fig. 305

Don't pay Fifteen or Twenty Dollars for a Pump.

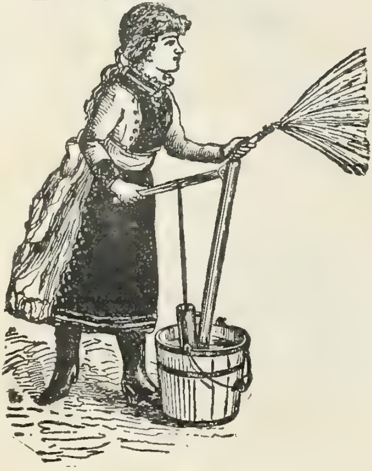
PRICE, - - - $10.00

Brass Bucket Spray Pump.



No. 327 1-2

This pump is constructed entirely of brass, a metal that is not affected by the poisonous preparations used in spraying. The labor of pumping is all done on the downward stroke of the pump. Has large air chamber, and ball valves. The pressure is held uniformly in the air chamber and on the hose, so that the nozzle throws a continuous spray and is not offected by the movement of the plunger. Will throw a solid stream 50 feet. This is the best hand pump we have, and is very handy for washing windows and sprinkling lawns where there is no water pressure. Has foot rest as shown, best hose and spray nozzle. **Price, $4.00**



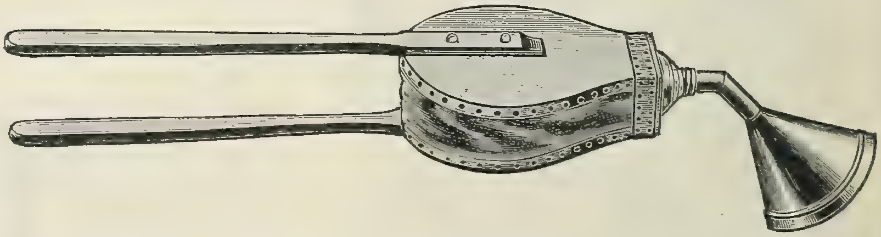
DAISY TIN FORCE PUMP.

❧

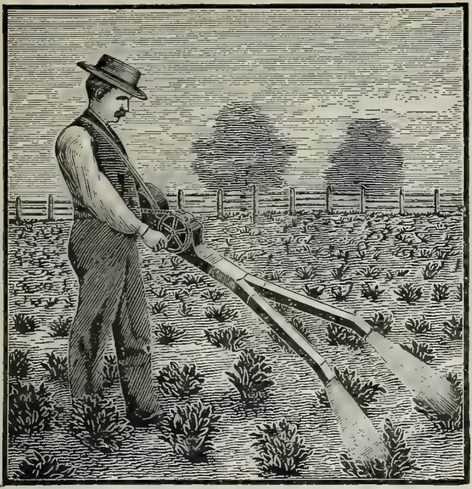
This is a good low-priced force pump; used for sprinkling vines and shrubs, also used for whitewashing and other similar uses. Made of tin and has two nozzles.

Net Price, $1.00

ACME POWDER GUN.



A simple, practical implement for the extermination of potato bugs and all kinds of insects, flies, etc., the pests of every house and garden. It will handle all insecticides in their dry state—Pure Paris Green, Hellebore, Persian Insect Powder, etc. It is very effective in the destruction of Potato Bugs, Currant Worms, and all like pests. Is well made, with a hardwood head block, hardwood handles, best leather for the bellows, (an extra elbow is furnished to tilt the funnel for getting under the leaves of plants and shrubs) and is well finished throughout. Every farmer should have one. **Net Price, $1.00**



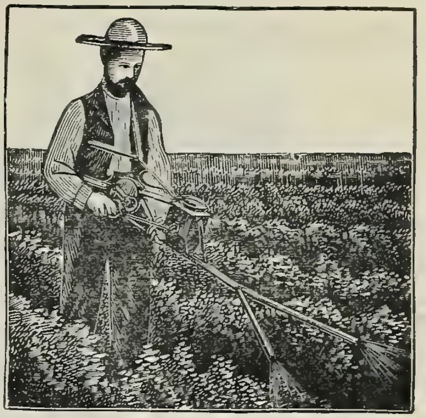
HOTCHKISS DRY POWDER GUN.

For applying clear Paris Green and other dry insecticides for destroying potato bugs and all other injurious insects. It does away with the slow, laborious process of applying mixtures in water or plaster. The process is a quick and effective way, and every farmer should obtain one of these light and easy running machines.

Price, $5.00

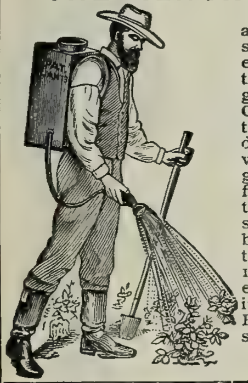
Champion Paris Green or Dry Powder Gun

For distributing dry insecticides and fungicides such as Paris Green, London Purple, Hellebore, Sulphur, Lime, "Fungiroid," Tobacco Dust, etc. Destroys potato bugs and all other insects, and prevents blight. The standard machine for applying insecticides dry. Sure, Rapid, Safe, Strong and Cheap.



Retail Price, $7.00

THE LENOX SPRAYER.

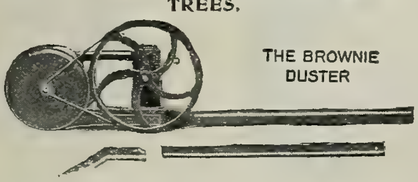


A cheap sprinkler for applying poisonous fluids such as Paris Green water, etc., to grape vines, low trees, bushes, potatoes, garden vegetables, etc. Can be carried either on the back or by hand, as desired. It is made of galvanized iron, holds five gallons of fluid, which flows through the rubber tube and is forced out in a spray by pressing the rubber bulb held in the hand; this spray will reach 10 to 12 feet. The Lenox Sprayer is not adapted for throwing fungiroid, such as Bordeaux mixture, the spray is not fine enough.

Price, $3.25

The Brownie Duster.

FOR GARDEN, VINEYARD AND SMALL TREES.



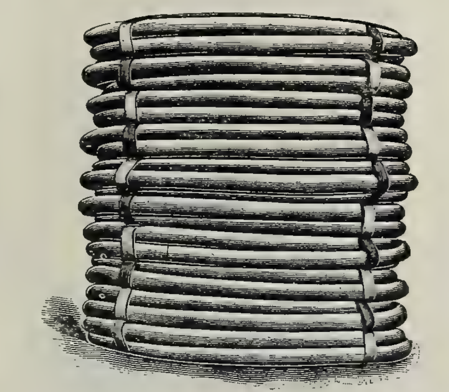
Particularly Useful for In-Door as well as Out-Door Work, Wherever a Dry Powder is Required.

The crank should be turned about 80 revolutions a minute.

Two 16-inch tubes and one bent nozzle furnished with each Duster. Machine weighs complete 3½ lbs. One packed in each case.

Price, $3.50.

RUBBER AND COTTON HOSE.

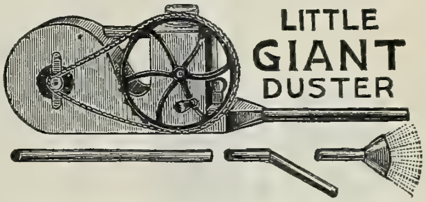


Our Hose is all made expressly for us by the most reliable manufacturer in the state and every piece is warranted, but it is economy to buy the best grade, as it will last several years.

PRICES.

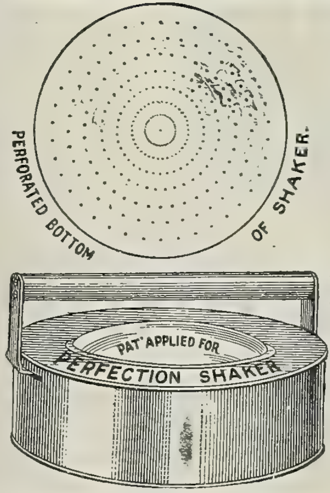
		½ in.	¾ in.
Bull Dog, - - -	7 Ply,	12	14
Tiger, - - - - - -	6 "	9	11
Leader, - - - -	5 "	8	10
Cotton, - - - -		10	12

Improved Little Giant Duster.



Distributes Paris Green, London Purple, Hellebore, Sulphur, Lime, Fungiroid (the dry Bordeaux Mixture), Spanish Pink, Pyrethrum Powder, etc. Weighs only five pounds complete. Full length with tubes, 4 feet 8 inches. **Price, $5.00**

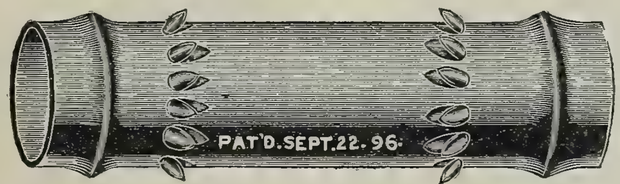
..The.. Perfection Shaker.



Especially adapted for applying Bug Death, Slug Shot, Paris Green, and other powders.

Price, 65c.

THE "COOPER" BRASS HOSE MENDER.


PAT'D. SEPT. 22. 96.

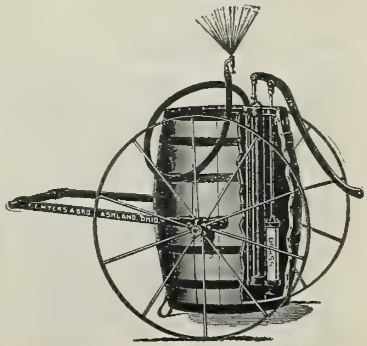
Made of thin brass tubing; will not rust or wear out; scarcely decreases the flow of water. Easily applied by any one; simply cut out your bad piece of hose and force the ends of the good hose over the mender until they meet in the centre. No other fastening is required; the barbs will hold it firm, and no matter what strain is put on the hose it will be as good as new at the point mended, and will not leak. **Price, each, 10 cents; per dozen, 75 cents.**

No. 838 SPRAY PUMP---Mounted On a Steel Barrel Truck.

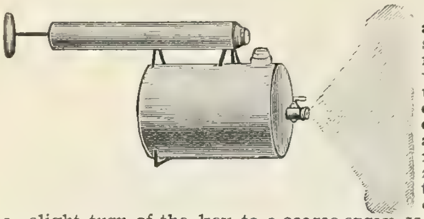
This is our No. 305 Pump, mounted on wheels, and for small orchards where it is impossible to drive with a team this is the handiest rig made. We can sell it complete, or the truck separate.

Price, complete, including Truck, Barrel Extension, Pipe Spray Nozzel and 6 feet of Hose, - - - - **$14.00**

Truck, separate, - - **$4.00**


F. E. MYERS & BRO. ASHLAND, OHIO.

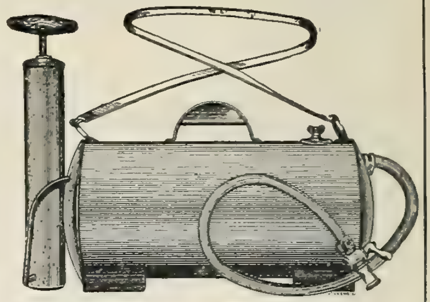
Blizzard High Pressure Sprayer.



After filling three-fourths full and pumping in about ten strokes of air, a continuous mist-like spray is thrown which will last several minutes. Potatoes, Tobacco, etc., can be sprayed as fast as you can walk, saving a large amount of time and labor. Removing the two pieces of nozzle a fine spread spray is thrown direct from the stop cock, which can be varied by a slight turn of the key to a coarse spray, 12 to 15 feet high, or a stream 15 to 20 feet high. The Blizzard is made of galvanized iron. It holds one gallon, is simple in construction, easy to work, easy to fill and handy to carry. It is light, strong and neat. A lady can use it. **Price, $2.00.**

THE SINGLE TANK

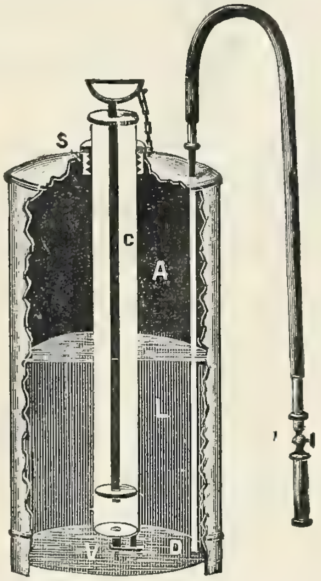
Utica High Pressure Sprayer.



Quickest and easiest working sprayer ever offered to the public. Perfect in appointments. All the latest improvements. Brass check valves and trimmings. It takes but half a minute to charge it. It holds three gallons and will carry a continuous spray for ten minutes. Especially adapted for spraying potatoes, tobacco, fruit trees, nursery stock, and whitewashing and disinfecting henhouses. Its spray being thrown with such force covers the underside of the foliage as well as the upper, killing all the insects.

Price, $5.00.

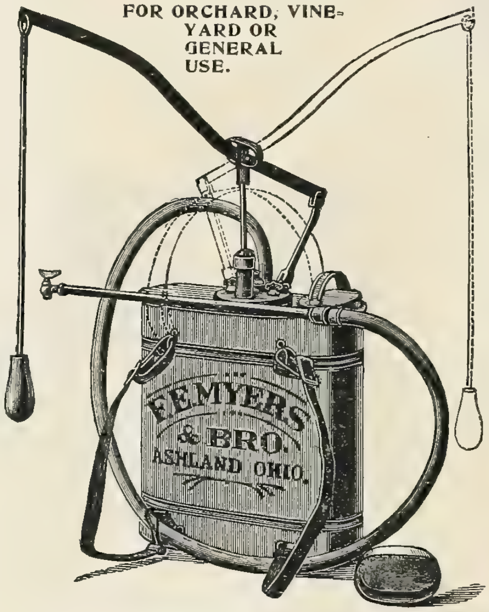
THE ROCHESTER SELF-OPERATING SPRAYER.



This Sprayer is filled not more than two-thirds full by unscrewing and removing the Brass Air Pump and the machine charged with compressed air. The air enters the sprayer through the valve at bottom of pump, thoroughly agitating and mixing the contents of Sprayer. The compressed air, being powerful and elastic, forces the liquid out through the outlet pipe, making either a fine spray or a solid continuous stream as desired. This size machine holds from 3 to 4 gallons, weighs 8 pounds. The body is made of Galvanized iron or brass, as desired. Air pump is made of brass. **Price, Galvanized Iron, $5.00; Brass, $6.50.**

Discount for cash, 50 cents.

Knapsack Spray Pump No. 331.

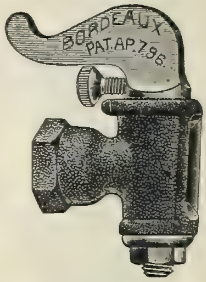

FOR ORCHARD, VINEYARD OR GENERAL USE.

The tank of this pump holds five gallons, is fitted up with lid and strainer, which can be removed. The pump is our regular Copper Tank Spray Pump, with large chamber, ball valves, solid plunger and agitator. It is so arranged that no water can drip on the operator. The pump can be removed easily. The pump is also fitted with handle, so the operator can use it the same as a tank with bucket pump, viz.: set the knapsack on the ground and work pump with handle. Can be carried by hooking snap in strap on the opposite side provided for that purpose, making a neat handle as shown by the dotted lines. The handle lever can be shifted from right to left shoulder at will.

NET PRICE, = = $10.00.

Bordeaux Spray and Solid Stream Nozzle.

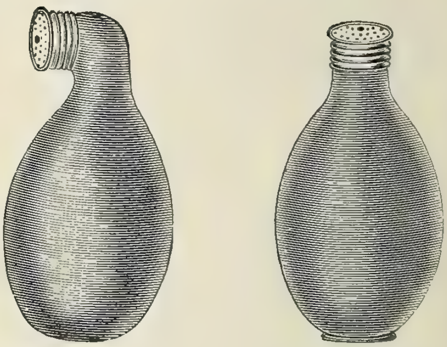
Use this Nozzle for Whitewashing.



Will throw a fine fan-shaped spray and will readily free itself, should it become clogged, by turning the cock handle. It will throw a solid stream or may be shut off altogether, as desired. It is especially recommended for use in connection with the Bordeaux mixture, and all Knapsack sprayers.

Price, 85 Cents.

RUBBER ATOMIZERS.



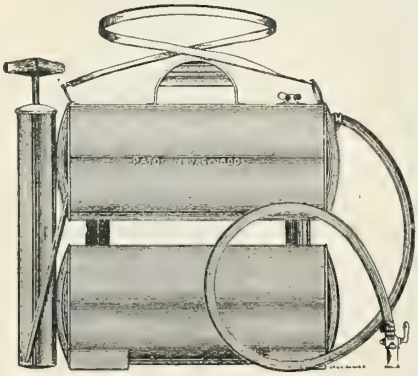
Very useful for sprinkling house plants and also for spraying with hellebore and bug death.

Small Size, 50 cents. Large, $1.00.

Either style of neck.

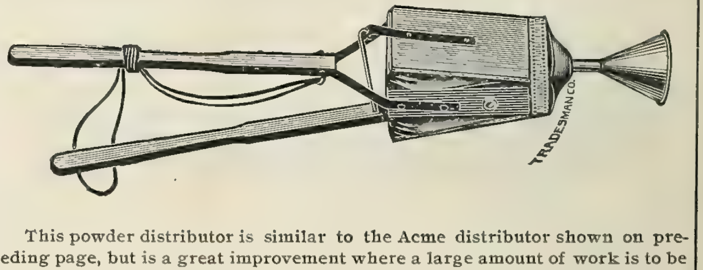
The Utica High Pressure Double Cylinder Sprayer.

FOUR GALLONS CARRIED EASILY.



Made of heavy Galvanized iron, strongly braced and reinforced in every part. Heads swelled and double seamed. Heavy cast brass filler, cap and screw. Strong 2-inch force pump, with heavy rods, best calf leather plunger and spring brass spreaders for leathers. Brass ball check valves. The most perfect working sprayer ever invented. Adapted for all classes of spraying. This sprayer, when filled and charged, which takes half a minute, will spray continuously for 15 minutes. It is especially fine for large work in potato fields, vineyards, tobacco plantations, fruit tree spraying, whitewashing, chicken-house spraying and green-house work. **Price, $5.50.**

Newberry Double Acting Powder Gun.


TRADESMAN CO.

This powder distributor is similar to the Acme distributor shown on preceding page, but is a great improvement where a large amount of work is to be done. It has a double acting, substantial bellows which works when opening and closing, thus throwing a continuous stream. It is provided with a support to hang on the neck of the operator which makes the work very light, and with it a large amount of work may be done in a day. **Price, $1.50.**

Drink Pure Water

By using the Bucket Pump and Water Purifier.

* * *

IT MAKES BAD WATER GOOD AND GOOD WATER BETTER

* * *

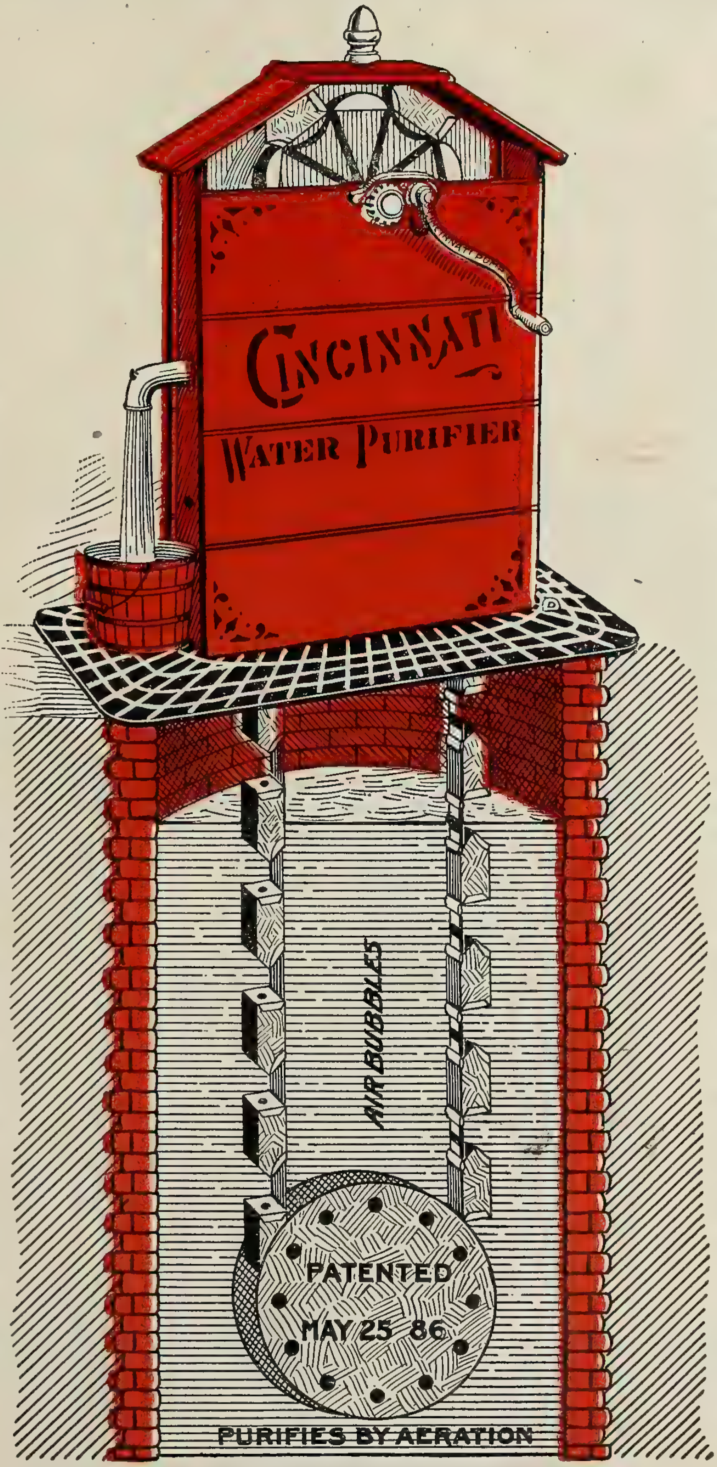
If you use this Pump you will Enjoy Good Health.

* * *

Prof. S. F. Baird, the well known scientist of the Smithsonian Institute, Washington, D. C., who saw it at the World's Exposition, says: "You can't have pure water unless you aerate it, and this device does it perfectly, and is the only pump I ever saw fit to put into a well or cistern where the water is used for drinking or cooking purposes."

We will guarantee to purify any well, no matter how bad the water is, in 5 days, or refund the money.

* * *



How it Purifies Water.

* * *

☞ Every bucket descends full of air and ascends full of water. For every gallon of water drawn, a gallon of air (the vital element) is circulated through the water, from the bottom to the top. This agitates, ventilates and purifies the water and forces a large surplus of oxygen from the air into the water, which is sufficient to consume all impurities or organic matter in the foulest well or cistern. It is a fact attested by thousands using it, that this purifier is the only one invented that will destroy wiggles, water bugs, water lice and germs of disease, and make foul and stagnant well or cistern water pure and sweet, removing all color, bad taste and smell. After a few days' use the old flatness and insipidity is replaced by a sparkle like that of a mountain spring. A filter purifies, but does not oxygenate; this does both.

Price. $10.00 for the first 10 feet of well; each additional foot of well, 50c.

Discount for wells less than 20 feet, 10 per cent.; 20 feet and over, 20 per cent. discount. Cash with order, 5 per cent. extra.

Wells over forty feet deep require extra heavy fixtures, for which there is an extra charge of $1.00.

☞ Beware of Imitations. No perfect working Pump can be made on this principle without infringing on the manufacturer's Patents. Ask for the "BUCKET PUMP," branded as above. TAKE NO OTHER.

A Live Agent wanted in every town where we have none. To such we will allow a Discount which will enable them to make Big Money. . . .

The Queen City

BEST WOOD CURB MADE

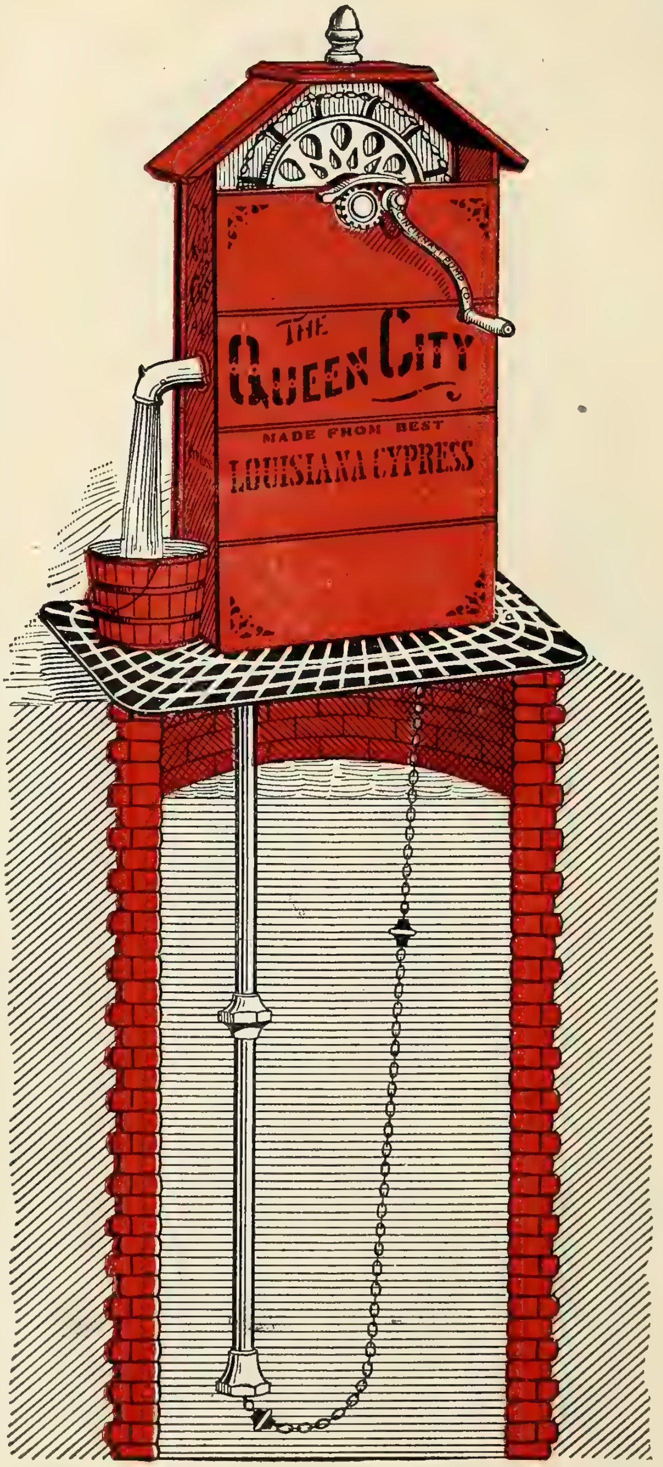
CYPRESS WOOD

Will Neither Swell,
Rot Nor Contract.

* *

Made of the best Louisiana Heart Cypress. This lumber grows in the heart of the South, naturally containing an acid that makes it impervious to water, thus preventing rot and decay.

Our Tubing (patent applied for) has a groove running the entire length, from top to bottom, pressed in same, which makes it absolutely non-freezing, as the water drains back into cistern or well when pumping is stopped. This overcomes the great objection and compliant of chain pumps freezing in winter and holding stale water in summer, due to the clogging up of the old style vents and appliances ordinarily cut in buttons.



IT IS THE ONLY

Anti-Freezing Tubing

ON THE MARKET,

As a groove running entire length of tubing allows the water to run out.

It does not make the water taste as wood tubing does.

It will not rust, being made from best galvanized steel.

Reservoir tubing is made in lengths of 5, 6, 7, 8, 9 and 10 feet.

Funnel tubing is made in lengths of 6, 8 and 10 feet.

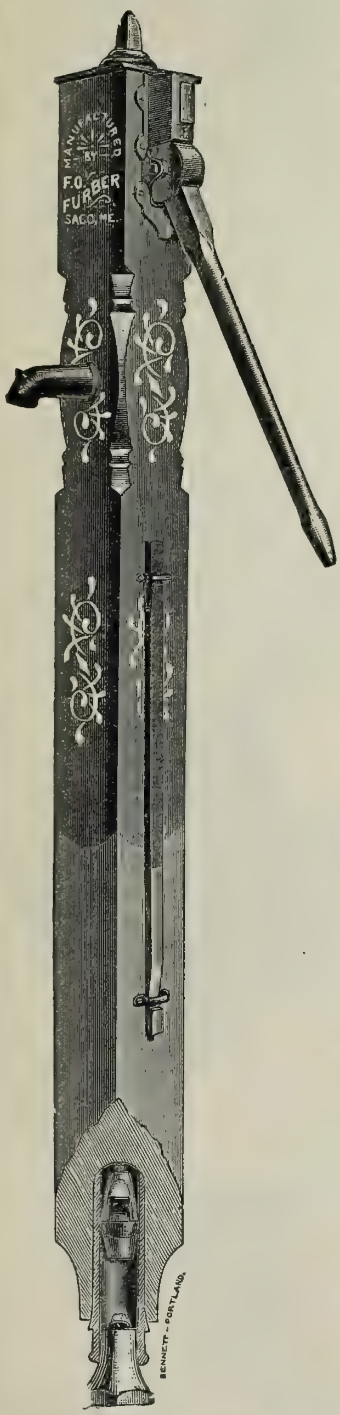
Plain tubing is made in lengths of 6, 8 and 10 feet.

Our reservoir and funnel are detachable.

PRICE.

Curb and Fixtures, . .	$2.50
Tubing, . . .	10c per ft.
Chain, . . .	10c per lb.
Rubber Buckets,	15c each.

FURBER WOOD PUMPS.


MANUFACTURED BY F.O. FURBER SACO, ME.
BENNETT-PORTLAND.

THIS is the best wood out-door pump that we can buy. It has the patent closed handle bracket, so that stones or any rubbish cannot get into the box; patent let-off to prevent freezing; iron top; lined or unlined.

6 x 6 for house use; 7 x 7 for stock.

6x6 Inch Stock, 3 1-2 inch Bore, for General Use.

	Porcelain Lined.	Unlined.
7 feet long,	$ 7.50	$ 6.00
8 "	8.00	6.50
10 "	9.00	7.50
12 "	10.00	8.50
14 "	11.25	9.75
16 "	12.50	11.00
Use 4 x 4 pipe for above pumps, per foot		$ .18
Couplings and band for the above, each		.50

7x7 Inch Stock, 4 Inch Bore.

	Porcelain Lined.	Unlined.
7 feet long	$ 9.50	$7.75
8 "	10.00	8.50
Use 4½ x 4½ inch pipe, per ft.		.23
Couplings and bands for the above, each		.60

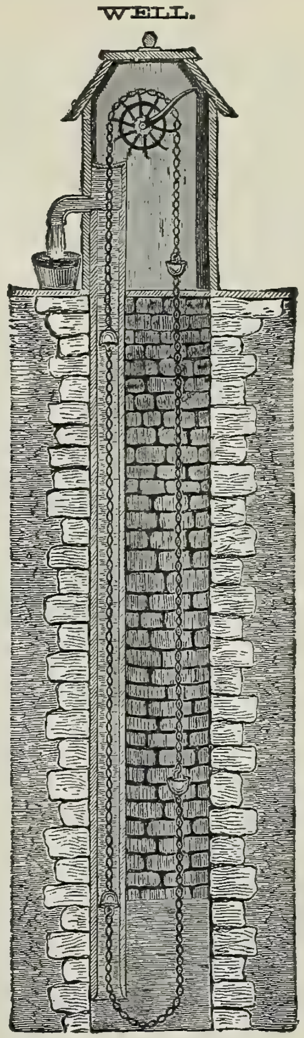
Retail price, 25 per cent off from list.

PRICE LIST OF EXTRAS OR REPAIRS.

Extra buckets, complete, 3½ inch	$ .80
Extra buckets, complete, 4 inch	1.00
Extra buckets, complete, 4½ inch	1.25
Extra handles for all pumps	.30
Plunger Rod, per foot	.03
Extra Plunger Rod Links	.25
Extra Check Valves, per dozen	1.50
Iron Spout, each, for 6 x 6 House Pumps	.30
Bands, each	.10
Drop Box Valve for drop box lining	1.00
Bucket Leathers, assorted, per dozen	3.50
Furber's Patent Closed Bracket	.80
Bucket Rubbers, each, 3½ inch	.40
Rod Couplings, malleable iron	.40

* * *

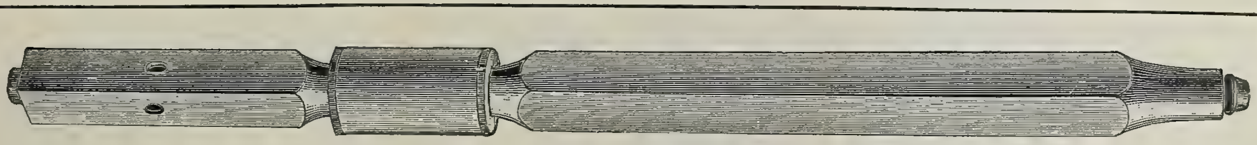
Rubber Bucket Chain Pumps.



This is the old reliable Rubber Bucket Chain Pump, and until the **Bucket Pump** shown on another page came into the market, it was used largely in wells where the water was impure, as the constant motion of the chain and buckets kept the water in motion and prevented sediment. They are one of the best cheap pumps.

PRICES.

Curbs, each	$2.50
Chain, per lb., (3 ft. to lb.)	.10
Wood Tubing, per foot	.07
Rubber Buckets, each	.15



The above shows two sections of tubing coupled together; also the valve on the end as it should be put on before driving it on to the pump.

INSECTICIDES AND REMEDIES For the Destruction of All Kinds of Insects that Infest CATTLE, POULTRY or PLANTS.

BUG DEATH
TRADE MARK

Pat. March 16 and Nov. 9, 1897.
Pat. in Canada Nov. 2, 1897,
and Jan. 25, 1900.

BUG DEATH.

This Insecticide and Plant Food Combined has been on the market for five years and its sales have shown a large increase each year. We can say to our customers that we give Bug Death our fullest endorsement. While the first cost to kill the bugs on an acre of potatoes is rather more than the arsenical insecticides, the results at harvesting time are entirely satisfactory, and where practical tests have been made *the extra yield of marketable potatoes has more than paid the entire expense.* It is **non-poisonous,** which makes it perfectly safe to use on all plants or vines.

Very Beneficial Results are obtained by using Bordeaux Mixture in connection with Bug Death, and they can be mixed and sprayed on the vines at the same time, with any of the spraying machines on the market for that purpose. **Bug Death prevents blight.**

Reduction in Price. The manufacturers at the request of the trade and many consumers, have added a 100-pound keg, which will be much appreciated by the farmers, as it reduces the cost per pound.

PUT UP IN PACKAGES AS FOLLOWS, WITH TRADE MARK ON EACH PACKAGE:

1-Pound package	$ .15	12½-Pound package	$1.00
3-Pound package	.35	100-Pound package	7.00
5-Pound package	.50	Perfection Shaker for applying Bug Death	.65

Bug Death may be applied dry with the Perfection Shaker, or with a small bag made from burlap or gunny cloth having the right mesh; also mixed with water and sprayed as above stated.

LEOMINSTER, MASS., Nov. 7, 1902.

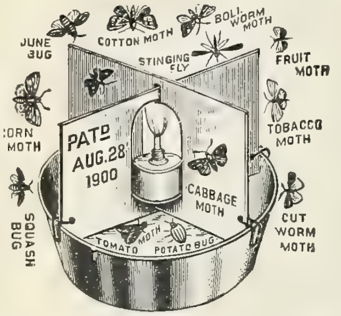
DANFORTH CHEMICAL CO. Gentlemen: I sprayed a part of my peach and apple orchards the past season with Bug Death and Bordeaux Mixture, and the results were very much more satisfactory than where Paris Green and Bordeaux Mixture was used the same day on the same variety of trees. The spraying was done but once, and that soon after the blossoms fell. I shall use Bug Death next year and shall try it without Bordeaux Mixture as I believe it will give excellent results alone.

Very respectfully yours, ALDEN DERBY.

WOLFVILLE, N. S., Sept. 14, 1902.

MESSRS. BUG DEATH CHEMICAL CO., St. Stephen, N. B. Dear Sirs: I was induced to use Bug Death this season on my apple trees beside Paris Green to test the value of Bug Death. I find that it does not burn the foliage and it kills the canker worm as well as Paris Green, and that it leaves the leaves in a better condition. I think it will be the coming spray for orchards when it is a little better known, as it is NON-POISONOUS which makes it better to handle, and it will kill the worms and won't hurt the foliage. A great many of the farmers will try it next year.

Yours truly, J. W. BIGELOW, Fruit Grower.
Pres. Nova Scotia Fruit Growers' Association.



S. A. HASELTINE'S MOTH CATCHER

("It Works While You Sleep.")

Protects orchard, garden and farm, kills the mother of the apple and pear worm, the codling moth; also the stinging insect that stings the fruit; the tent caterpillar and the borer beetle, which makes the worms that girdles the trees and kills the orchard, also catches the peach and plum beetle that makes the curculio, the June bug, Colorado beetles, potato bug and other noxious insects.

Small, 85c. Large, $1.00.

Whale Oil Soap. For destroying insects on plants, etc.; in small boxes, per lb. 15c, 5 lbs. 50c.

Spanish Pink. Non-poisonous to man or beast; kills cabbage willow or web worms, caterpillars, rose and potato bugs; excellent for squash, cucumber and melon vines. Price per lb. 25c.

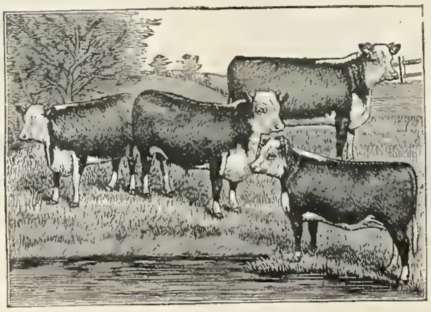
Paris Green. A poisonous, insoluble powder for preventing the ravages of potato bugs, codling moth, caterpillars, slugs and bugs. Mix 1 pound to 100 pounds of plaster, or 200 gallons of water. May be used clear with the Leggett & Hotchkiss guns. Per lb. 25c, 5 lbs. $1.00.

Dry Bordeaux Powder. For preventing blight on grapes, potatoes and other crops that are subject to rust, mildew and black rot; applied dry with bellows. 1 lb. 15c, 5 lbs. 75c.

Dry Bordeaux Mixture and Paris Green. It kills potato bugs and all plant-eating pests, prevents blight and rust, keeps potato and tomato vines and other foliage in a green and vigorous condition. In one and three pound boxes, per lb. 20c.

Lion Brand Bordeaux Mixture (Liquid). This mixture is put up in one gallon patent cans. Retail for $1.00. One gallon will make 50 gallons by the addition of 49 gallons of water. Gallon cans, $1.00.

THE EUREKA FLY KILLER.



Protects cattle and horses from fly pest and vermin. Sure preventive, perfectly harmless, easily applied, inexpensive.

Eureka Fly Killer is a sure preventive that kills and drives away the worst of all pests, the Texas, Buffalo and horn flies. It was born of a necessity; it meets an existing demand for an article of its kind, and that it meets it well and perfectly satisfactorily is attested by the numerous and grateful testimonials from farmers who have used it.

Price per gallon, 75c.

Morrill's Canker Worm Exterminator.

MORRILL'S GRUB & CANKER-WORM EXTERMINATOR
MORRILL'S EXTERMINATOR

A sure protection for fruit trees and ornamental trees from the ravages of the grub and canker worm. As easily applied as paint or whitewash by first placing a band of tarred paper six inches in width, securely fastened around the tree four feet above the ground, then covering the paper thoroughly with the exterminator, using a common paint brush. For 2 lb. can, 30c; 3 lb. cans, 45c; 5 lb. cans, 60c; 10 lb. cans, $1.10; 20 lb. cans. $2.00.

COAL TAR. In quart tin boxes. For tarring corn to prevent crows from pulling it. Per can, 25c.

LONDON PURPLE. Used by some in place of Paris Green. Per lb. 25c.

HELLEBORE. Sure death to the currant worm. Per lb. 25c; ½ lb. 15c; ¼ lb. 10c.

TOBACCO AND WHALE OIL SOAP. Something new to prevent scale, green and black fly, mealy bug and red spider on greenhouse plants, and kills lice on dogs and poultry. Price, 25c.

TOBACCO STEMS. Indispensable for fumigating greenhouses and conservatories; for destroying aphis, should be dampened before using, and use a small handful on some dry shavings, and light it. Price per 100 lbs., $1.[illegible]5.

TOBACCO DUST. Kills green and black fly, etc., if dusted on when the plants are moist. Also good to mix in the soil to destroy ground insects. Small size, 10c, for 100 lbs. $2.00.

CONKEY'S ROUP CURE is the only remedy that will positively cure roup in all its forms. It is simply put in drinking water and the chicken takes its own medicine. It prevents colds and is unequalled for canker, especially in pigeons. Price, 50 cents.

GREELEY'S ROUP CURE. The result of twenty-five years' experience. A sure cure if used in season. Price, 25 cents.

LAMBERT'S DEATH TO LICE. As its name implies, it is sure death to lice on hens and chickens. It is harmless to human and animal life. Should be used on setting hens; it will not injure the eggs or harm the youngest chick. Large size, 50 cents; small size, 25 cents.

LEE'S LICE KILLER is a liquid preparation; comes in tin cans; highly recommended. Quart, 35c; 2-quart, 60c; 4-quart, $1.00.

DR. HESS' HEALING POWDER. A great antiseptic powder. Cures galls and open wounds. 4-oz. box, 25c.

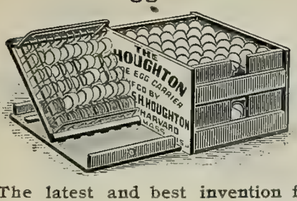
DR. HESS' INSTANT LOUSE KILLER.

KILLS LICE.

INSTANT
LOUSE-KILLER
Kills Lice
TRADE MARK

Put up in round can with perforated top ready for use in one and three pound packages. The large size is the cheaper. You get three pounds for 60 cents and with the handle it is just as convenient as the smaller size. Large size, 60c; small size, 25c.

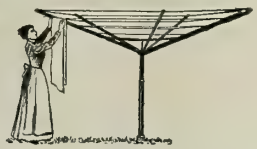
Wire Egg Carrier.



The latest and best invention for handling eggs.

6 doz. . .each	$1.00	25 doz. . .each	$2.00
9 " .. "	1.25	30 " .. "	2.25
15 " .. "	1.50	36 " .. "	2.50
20 " .. "	1.75		

Our Special Out-Door Dryer

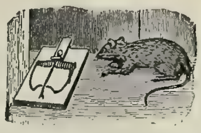


Made of Best Stock; Cotton Line.

110 Foot Line.................. $4.00
150 " " 4.50

Above includes box to go into the ground.

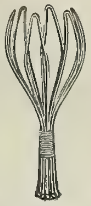
Out-of-Sight Rat and Mouse Trap.



Here is your rat, where is your cat? Never mind, if you have this trap.

For Rats.............. 20 cts.
For Mice.............. 20 cts.

Fruit Pickers.

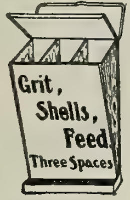


The Peerless. Very handy for gathering apples, pears or plums.

Price, Peerless.......... 25 cts.
Price, Young's........... 20 cts.

"Sanitary" Self Feeding Box

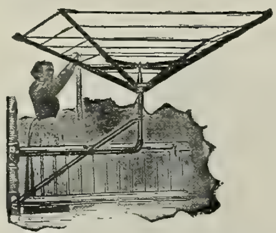
Called Grit Box for short.



Three spaces. Made of heavy galvanized iron; will last a life time; saves waste; hangs on a nail; holds four quarts; soon pays for itself.

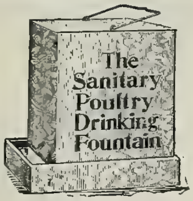
Price.......... 50 cts.

Hill's Balcony Dryer.



The best Dryer made for balconies. Endorsed by all the leading architects.

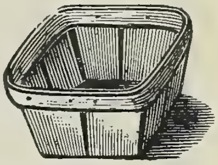
List Price, $12.00. Disc. for cash, $1.00.



Can be thoroughly and easily cleaned and filled in a minute. Will go into any brooder. No danger from drowning. Is not injured by freezing. Hangs upon a nail out of the dirt.

One Gallon................ 50 cts.
Two Gallon............... 85 cts.

Strawberry Baskets.



Fruit put up in a neat package always commands a better price than that shipped in cheap baskets.

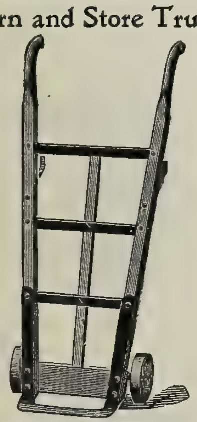
Order early; do not delay until the goods are wanted, and then expect them the next day.

Prices—No. 1, all White Stock, wire tacked. 100, 50c.; 1000, $3.50.

Close Corner, or Huckleberry baskets. 100, 60c.; 1000, $4.00.

Special price on lots of 5000 or over.

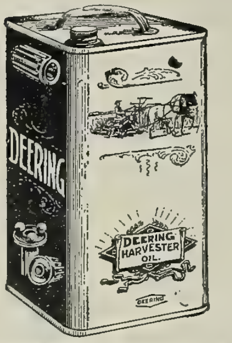
Barn and Store Trucks.



Made of hard wood, and wheels run on steel axle.

Price........... $2.25

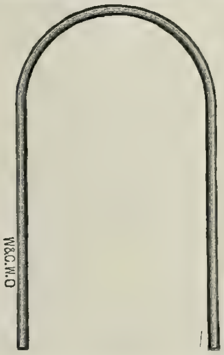
Deering Machine Oil.



Never use cheap oil; the best is none too good. If you buy Deering Oil your machines will run easy.

Price, 2 Qt. Can......... 40c.
Price, 4 Qt. Can......... 75c.

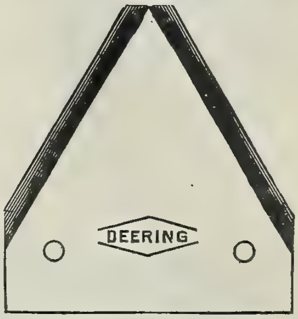
Lawn and Flower Bed Wickets



Protect flower beds from dogs, cats or children; very ornamental; painted green.

Per Dozen............. $ .65
Per 100 .... 5.00

Mowing Machine Sections.

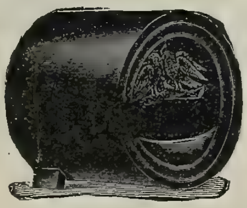


Deering, Wood,
Buckeye, McCormick,
Champion, Osborne.

Each, 6c.; per 100, $5.00.

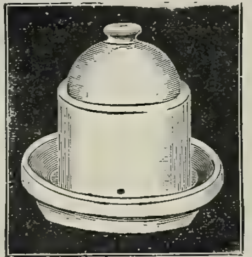
Give size of section, or send old one for pattern.

W. R. Poultry Fountain.



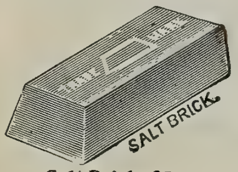
Very handy and convenient. 2 qts. 20c.; 4 qts. 30c.; 8 qts. 40c.

E. H. M. Poultry Fountain.



Easiest fountain to clean ever made. 1 qt. 25c, 2 qts. 30c, 4 qts. 35c, 8 qts. 50c.

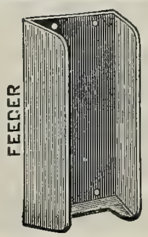
Do Your Cattle and Horses Always Get Salt?



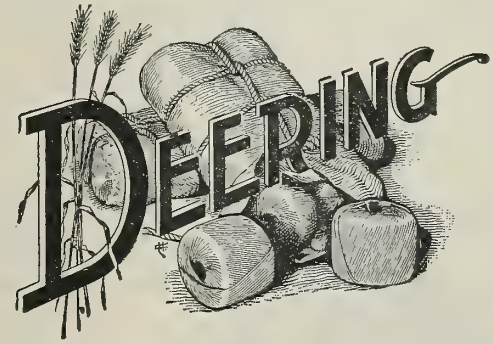
Salt Brick, 25c.

This method of feeding pure salt to stock has been adopted in the largest stables and grows in favor daily. All first-class stables should have it.

Salt Brick Holder, 25c.



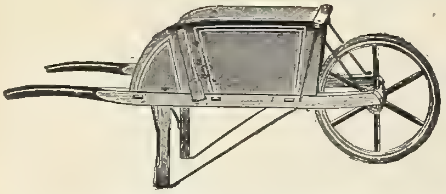
Deering Binder Twine.



Manila or Sisal Binder Twine, for grain reapers or corn harvesters. This is also used for tying vegetables for the market; is much cheaper than raffia, and not as much work to tie. It is put up in 5 pound balls, a very convenient size.

Price per pound........ 15 cents.

Beekman Garden Barrow.

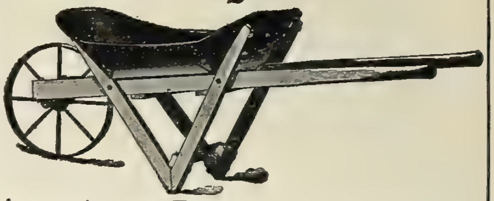


This barrow is made of hardwood but not all oak; it is well made, all parts being bolted or screwed. Our best seller.

PRICES.

No. 2. Boys' Size, $2.75
No. 4. Medium Size, for garden, ... 3.00
No. 6. Large Size, for farmers, ... 3.25

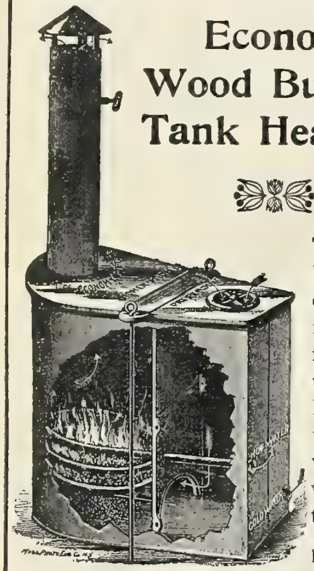
Klondyke Steel Tray Barrow.



This barrow is made similar to our Contractors' Favorite with the exception of the tray which is made of one piece of sheet steel about the size of a wood tray. Trays are painted one heavy coat of paint.

Price, each, $2.75

Economy Wood Burning Tank Heater.

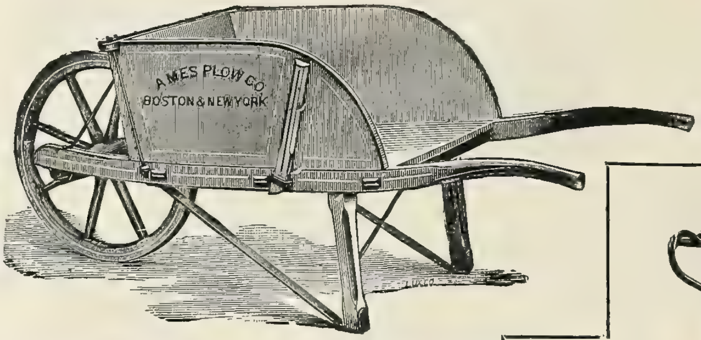


This heater burns wood or cobs and is designed for out door use. Will heat a large tank of water in a very short time.

Price, $8.50

Lawn or Garden Wheelbarrow.

CUSTOM MADE.



This barrow we have made for us and is especially designed for our retail trade. It is made entirely of oak, is handsomely painted and varnished, and is put together with bolts and screws. Has a high wheel with eight spokes. It is an ornament to any garden. One size only.

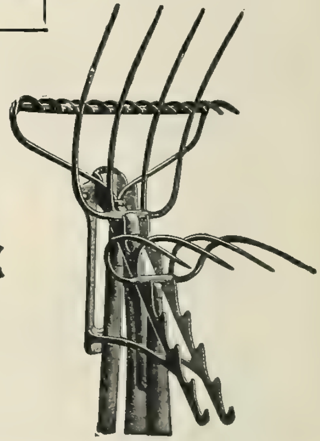
No. 4. Price, $4.00

HAGEE TOOL RACK.

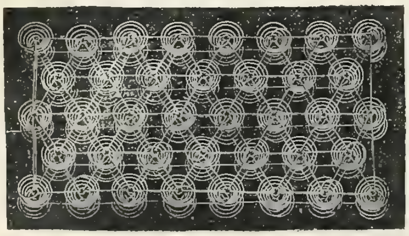
Designed for Store or Stable. Made in three styles for Shovels, Hoes or Forks. Combination Racks for stores can be used for all.

Price, each, 50 cents.

Dozen, $5.00.



THE UNION SPRING STEEL WIRE CUSHION.



The best in the market for wagons, carriages, barges, etc. Made any size in length or width. Can be used either side up, and are hooked together so they cannot get out of order. They are placed on the seat and are used with only a thin cushion or a blanket on them, and in wet weather can be used alone.

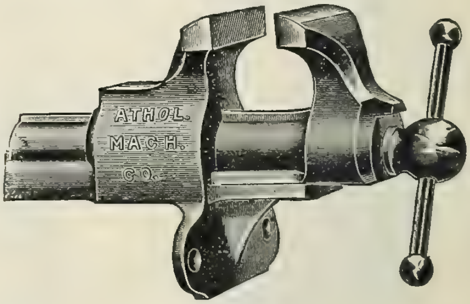
PRICES.

14-Inch, $1.25; 18-Inch, $1.50; 42-Inch, $3.00
Other Sizes Made to Order.

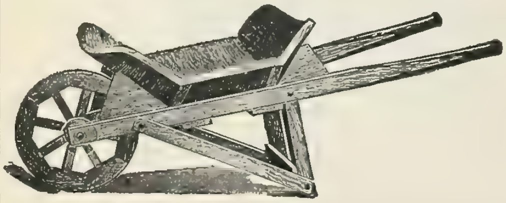
FARMERS' OVAL SLIDE VISES.

Made of best quality of stock with hardened steel jaws and proportioned for strength and durability.

	List Price.	Net Price.
No. 70, 2 in.	$1.75	$1.20
No. 71, 2½ in.	2.00	1.60
No. 72, 3 in.	2.40	2.10
No. 73, 3½ in.	3.00	2.75
No. 74, 4 in.	4.40	3.50
No. 75, 4½ in.	6.25	5.00

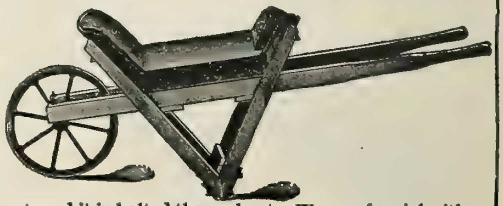


Common Bolted Dump Barrow.



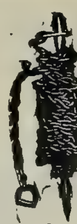
This is a much better made barrow for the price than is usually sold. The legs and braces are bolted, has a good wood wheel with iron bound hub, and with the exception of our Contractors' Favorite is the best dump made. **Price, each, $1.60; per dozen, $18.00**

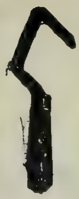
Dump, or Contractors' Barrow.

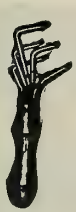


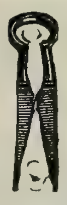
The Contractors' Favorite Dump Barrow is without doubt the strongest and most durable dump barrow on the market. Please notice the Iron Shoe, which is unlike any other barrow. The stock used is the very best, and it is bolted throughout. We can furnish either wood or steel wheel.

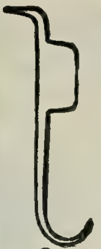
Price, each, Wood Wheel, $1.75, doz. $20.00; Steel Wheel, $2.00, doz. $23.00

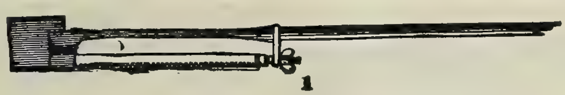

5


6

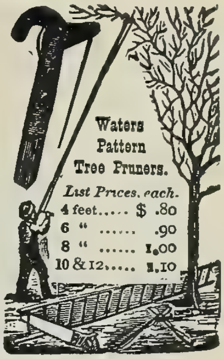

7


8

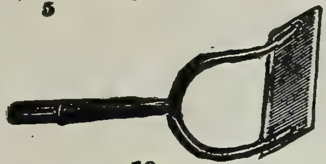

9

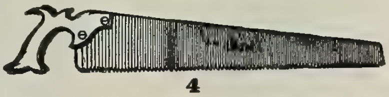

1

2

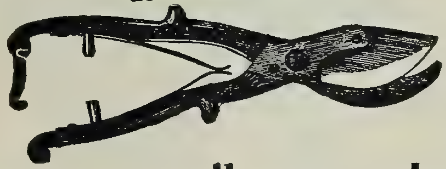

Waters
Pattern
Tree Pruners.
List Prices each.
4 feet..... $ .80
6 " ...... .90
8 " 1.00
10 & 12..... 1.10

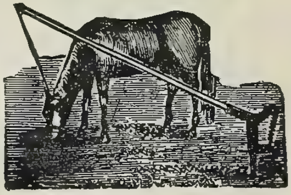
21

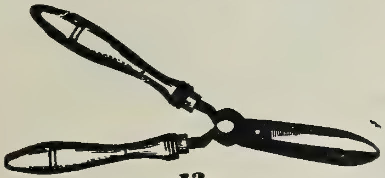

10

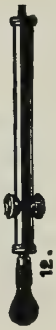

4

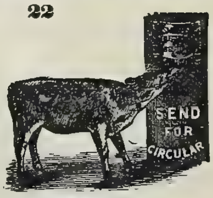
3


11

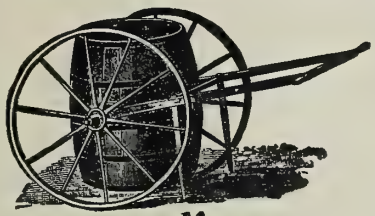

22

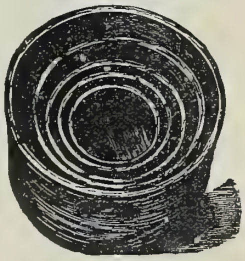

13

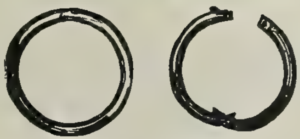

12.

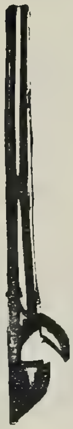


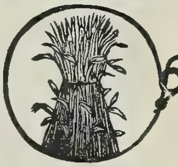
23

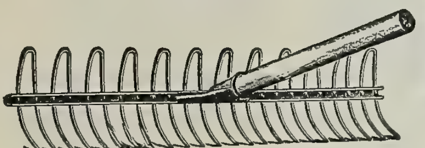

14


24


BULL RINGS.
15


16


25


20

Hedge Shears, Border Knives, Scuffle Hoe, Weeders, Etc.

Pruning Saw and Chisel, (Fig. 1) $1.00

One Man Saw, (Fig. 3) 3 ft., $1.50; 3½ ft., $1.75; 4 ft., $2.00; 4½ ft., $2.25.

Narrow Tree Saw, (Fig. 2) with handles, 4½ ft., $1.15; 5 ft., $1.25; 5½ ft., $1.40; 6 ft., $1.50.

Pruning Saw, (Fig. 4) 60c.; Double Edged, Fine and Coarse Teeth, Straight Blade, 16 in, 50c.; 18 in. 60c.; Curved Blade, 16 inch, 50 cents; 18 inch, 60 cents.

Tethering Chain, (Fig. 5) with Stake, 20 ft. $1.65; 30 ft., $2.00.

Weeder.—Hazelton's, (Fig. 6)........................ .25

Weeder.—Secor, (Fig. 7) .... .10

Seeep Shears, (Fig. 8), used for grass, 25 cents; polished, 60 cents.

Grafting Chisel (Fig. 9)........................ .50

Scuffle Hoe, (Fig. 10), 6 inch, 45 cents; 7 inch, 50 cents; 8 inch, 55 cents; 9 inch, 60 cents.

Pruning Shears. (Fig. 11) 25, 30, 35, 50 and $1.00.

Garden Syringe, Brass, (Fig. 12) No. A, 12 inch barrel, $2.00; No. 12, 14 inch, $3.00; No. 2, 14½ inch, $4.00.

Hedge Shears, (Fig. 13) No. 100, 9 inch, $1.50; No. 101, notch in blade for large limbs, $1.75.

Water Barrel Truck, (Fig. 14) without barrel, including irons........................ 6.00

Bull Rings, (Fig. 15) Copper, 2½ inch, 25 cents; 3 inch 30 cents.

Post Hole Digger, (Fig. 16) Gibbs patent........................ 1.50

Lawn Rake—The Queen, (Fig. 20) Wire, tinned, 60 cents; The Paragon Wire, wood head, 40 cents.

Animal Tether—Wright's patent, (Fig. 22) animals cannot get entangled........................ 2.75

Calf Feeder, Small's, (Fig. 23) $2.00; extra nipples, 25c.

Wood measures, Oak, (Fig. 24) Full set, sealed, $1.25; 1 qt., 10 cents; 2 qt., 15 cents; 4 qt., 25 cents; 8 qt., 30 cents, ½ bushel, 50 cents.

Corn Tie, Holdfast, (Fig. 25) per hundred $1.50

Carver's, per hundred, 60 cents; per thousand........................ 5.00

Malleable Iron, 12 teeth, 25c; 14 teeth, 30c; 16 teeth, 35 cents.

Cast Steel Rake, 12 teeth, 45c; 14 teeth, 50c; 16 teeth........................ .55

Wood Lawn Rake, 24 teeth, 50 cents; 22 teeth........................ .40

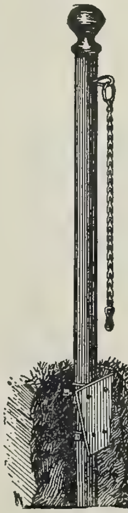
Iron Hitch Post, (Fig. 26) with Chain........................ 2.25

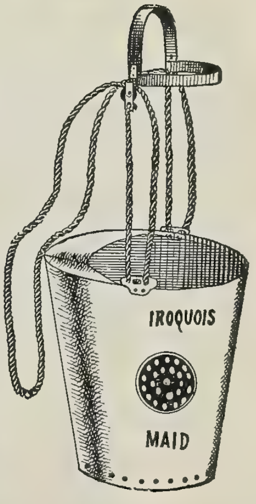
Wood Hitch Post, Iron Cap........................ 1.75

Feed Bags (Fig. 27) Iroquois, 85 cents; Whitaker, 75 cents; B. O., 60 cents; Brave, 60 cents; Modock........................ .35

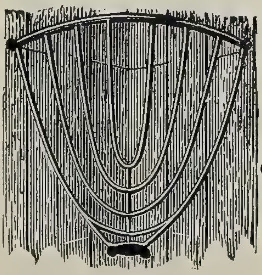
Corn Manger, (Fig. 29) cast with guard........................ 1.25

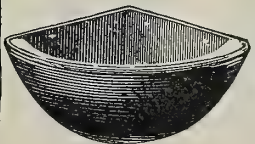
Corner Hay Racks, (Fig. 30) cast........................ 1.25

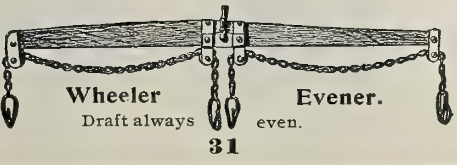

26



27

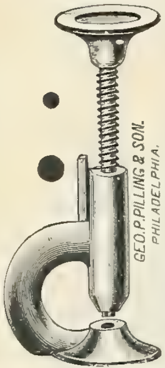

30


29


Wheeler Evener.
Draft always even.
31

VETERINARY INSTRUMENTS

EVERYTHING SHOWN ON THIS PAGE WILL BE SENT POSTPAID ON RECEIPT OF PRINTED PRICE


GEO.P.PILLING & SON.
PHILADELPHIA.

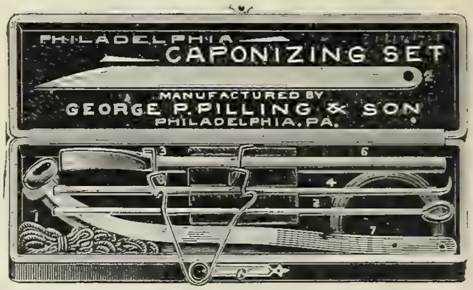
PHILADELPHIA POULTRY MARKER

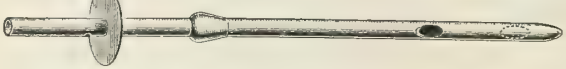
Do you keep a record of chickens? The different breeds, hatches, etc., should be kept. There is no better or quicker way than by this marker, as over 200 different marks can be made by punching web between toes. They are well made with steel spring and cutter, nicely nickel plated. Made in two sizes. Sent postpaid on receipt of price, 25 cents each.

PILLING'S CAPONIZING TOOLS.

Poultrymen can double their profits by Caponizing their chicks. The operation is very simple—the instruction so full and explicit that anyone will be able to perform the operation. The demand for Capons far exceeds the supply, the price per pound being twice as much as for ordinary chicks. The object of Caponizing is to largely increase the weight of the fowl, causing them, in many cases, to grow as large as turkeys and weighing from 10 to 15 pounds, to make the meat a finer and sweeter flavor and very juicy and tender. Again Capons are worth $1.00 to $1.50 more than cocks not Caponized. They are very much quieter in disposition.

Complete with instructions, $2.50. In Velvet-lined case as per Engraving, $2.75. We send book, "Complete Guide for Caponizing," with every set.


PHILADELPHIA
CAPONIZING SET
MANUFACTURED BY
GEORGE P. PILLING & SON
PHILADELPHIA, PA.
1
2
3
4
5
6
7

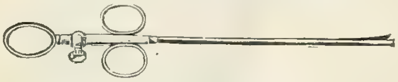


MILKING TUBES for Sore and Obstructed Teats and Hard Milking Cows.

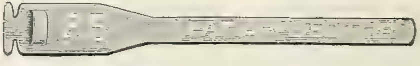
DIRECTIONS.—The long rounded end of the tube is inserted in the orifice of teat, when the milk will flow without the use of the hands. It is best to wet the Tube with a drop of milk or water before using. Remove tube when milk ceases to flow. If in some cases, the obstruction is further up the teat than can be passed by the regular length, you should have a longer tube, and as it can be made any length, answers for all purposes. German Silver plated, 2½ in., 25c.; 3 in., 35c.; 3½ in., 45c. Common White Metal, 2½ in., 20c.; 3 in., 30c.; 3¼ in., 40c.

STRICTURE INSTRUMENTS

For cutting strictures in cows' teats.



Pilling's Three-Ring Stricture Cutter.
Price $3.00.



Aluminum Tag Bonds. Made of one piece; two sizes; will fit any fowl; impossible to lose. In ordering give breed. Price, postpaid, doz. 20c.

Pilling's Plain Teat Slitter.

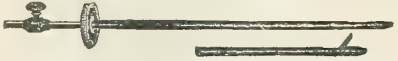
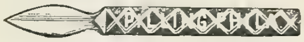


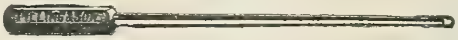
Illustration shows instrument both open for cutting and closed for inserting. Plated, $1.50

French Poultry Killing Knife.

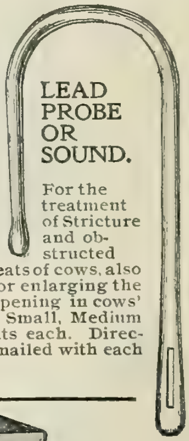


Every poultry raiser should have one of our Killing Knives. They are made of finely tempered instrument steel, with nickeled handle; will last a life time. It will be one of the best investments you ever made. Sent postpaid on receipt of 50 cents.

Pilling's Improved Instrument for Opening Obstructed Teats.

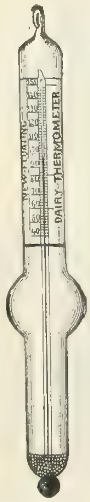


The above instrument for opening obstructed (cows) teats. There has been a demand for some simple remedy for this purpose, which we think is now filled by this little instrment, being highly endorsed by some of the best Veterinary Surgeons of the Country for its very successful, and at the same time harmless and simple use, so that any person of average intelligence can use it with perfect safety. We send it securely packed in neat box, with full instructions, postpaid, on receipt of price. 75 cents.



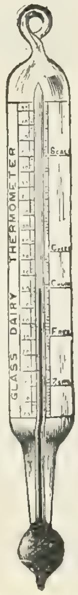
LEAD PROBE OR SOUND.

For the treatment of Stricture and obstructed teats of cows, also for enlarging the opening in cows' teats. Made in three sizes: Small, Medium and Large, postpaid 25 cents each. Directions for using Lead Probe mailed with each one.


DAIRY THERMOMETER

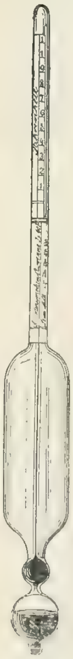
Floating Dairy with bulb always upright.

Price 50c.


GLASS DAIRY THERMOMETER

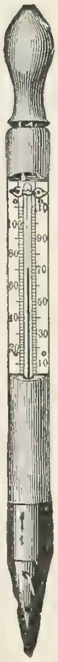
Common Dairy graduated for Dairy use.

Price 25c.



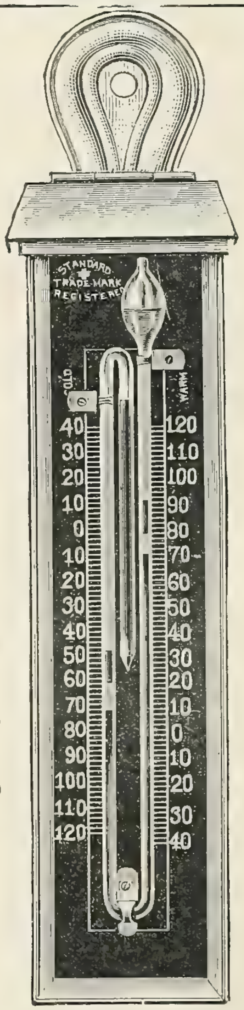
Lactometer for testing gravity of milk.

Price 65c.



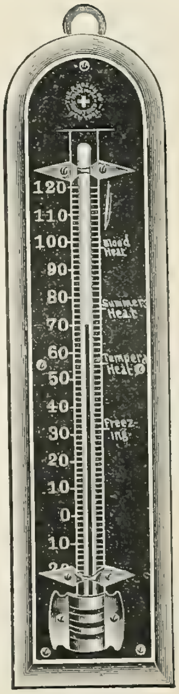
Hot Bed Thermometer.

Price $1.50


STANDARD
TRADE-MARK
REGISTERED
COLD
WARM
40
30
20
10
0
10
20
30
40
50
60
70
80
90
100
110
120
120
110
100
90
80
70
60
50
40
30
20
10
0
10
20
30
40

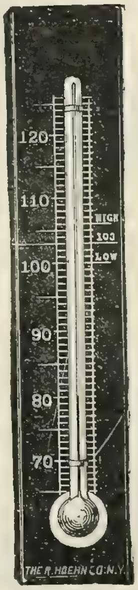
Self Registering Extreme Heat or Cold.

Price $2.00


120
110
100
90
80
70
60
50
40
30
20
10
0
10
Blood Heat
Summer Heat
Temperate Heat
Freezing

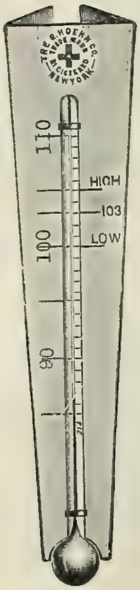
House Thermometer—Wood Back.

Price 85c.


120
110
100
90
80
70
HIGH
103
LOW
THE R. HOEHN CO. N.Y.

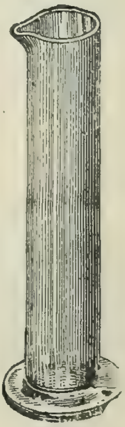
Common Incubator.

Price 50c.


THE R. HOEHN CO.
TRADE MARK
REGISTERED
NEW YORK
110
100
90
HIGH
103
LOW

Bevel Incubator.

Price 50c.



Glass Cream Testing Jars.

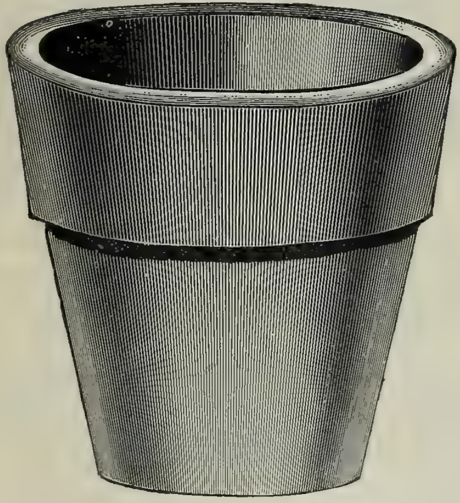
2 Sizes

Price 60 & 75c.

PRICE LIST OF A. H. HEWES STANDARD FLOWER POTS

If You Buy STANDARD POTS You Will Not Be Disappointed—As They Always Give Perfect Satisfaction.

STANDARD POTS.

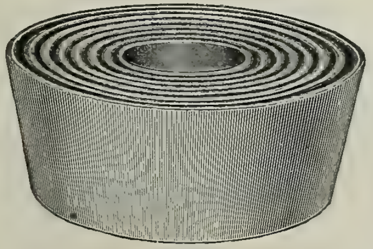


2 1-4 inch.

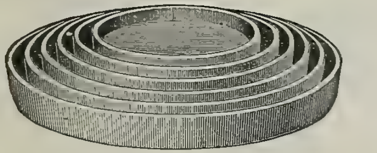
Price per M, . . . $9.00

FERN PANS.

Something new in Fern Pans and Saucers. These pans are made thin and strong, and the saucers very shallow. They are very popular, and are made in eight sizes, to be sold with or without saucers. The pans are especially adapted for linings to porcelain and Silver Fern pans. Dimensions given are outside measurements.

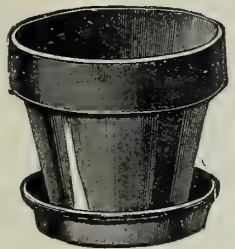


No. 388.



Saucers for No. 388.

Size.		Pots.	Saucers.
4 x 1⅞ in.,	per hundred,	$ 3 00	$ 1.80
4¾ x 2⅛ in.,	" "	4 00	2.30
5½ x 2¼ in.,	" "	5.00	3.00
6¼ x 2½ in.,	" "	6.00	3.50
7 x 2⅝ in.,	" "	7.00	4.00
8 x 3⅛ in.,	" "	10.00	6.00
9 x 3¼ in.,	" "	12.00	8.00
10 x 4 in.,	" "	14.00	10.00



FLOWER POTS AND SAUCERS. STANDARD.

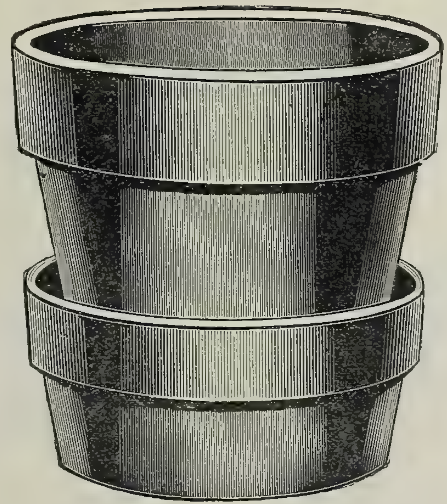
WITH RIMS.

Inside measurement, width and depth equal.

Size.	Per M.	Size.	Per M.
1¾ in.	$7.00	2½ in.	$11.00
2 in.	8.00	2¾ in.	12.50
2¼ in.	9.00	3 in.	14.00

Size.		Pots.	Saucers.	P.&S.
4 in.	per hund.	$ 2.20	$ 1.80	$ 4.00
5 in.	"	4.00	2.25	6.25
6 in.	"	6.00	3.00	9.00
7 in.	"	10.00	4.00	14.00
8 in.	"	14.00	6.00	20.00
9 in.	"	20.00	8.00	28.00
10 in.	"	27.00	10.00	37.00
11 in.	"	36.00	12.00	48.00
12 in.	"	50.00	15.00	65.00
13 in.	"	75.00	20.00	95.00
14 in.	each	1.00	.25	1.25
15 in.	"	1.50	.30	1.80
16 in.	"	2.00	.35	2.35
18 in.	"	3.00	.50	3.50

CALLA LILY POTS.



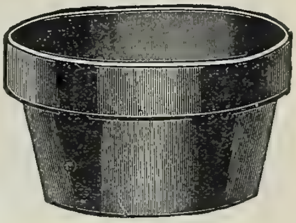
No. 304.—UNPAINTED.

8 in., each, ...	30c
10 in., each, ...	60c

No. 305.—PAINTED RED.

8 in., each, ...	50c
10 in., each., ...	75c

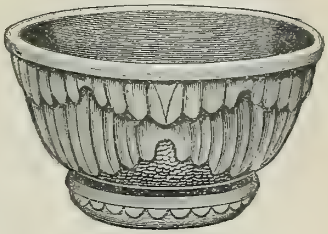
ROUND SEED PANS.



No. 309.

6 in.	Round, per hund.,	$6.00
7 in.	" "	8.00
8 in.	" "	10.00
9 in.	" "	14.00
10 in.	" "	18.00
12 in.	" "	25.00
14 in.	" "	50.00

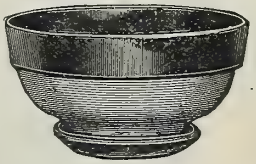
HANGING VASE.



No. 406.

7 in., each, 20c.	Doz.,	$2.00
8 in., each, 25c.	Doz.,	2.50
9 in., each, 30c.	Doz.,	3.00

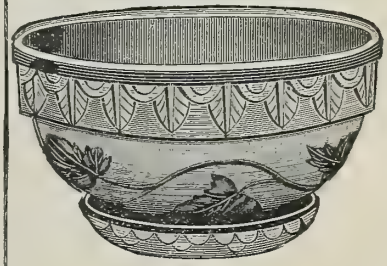
HANGING VASE.



No. 268.

6½ in., each, 15c. Doz., $1.50

HANGING VASE.

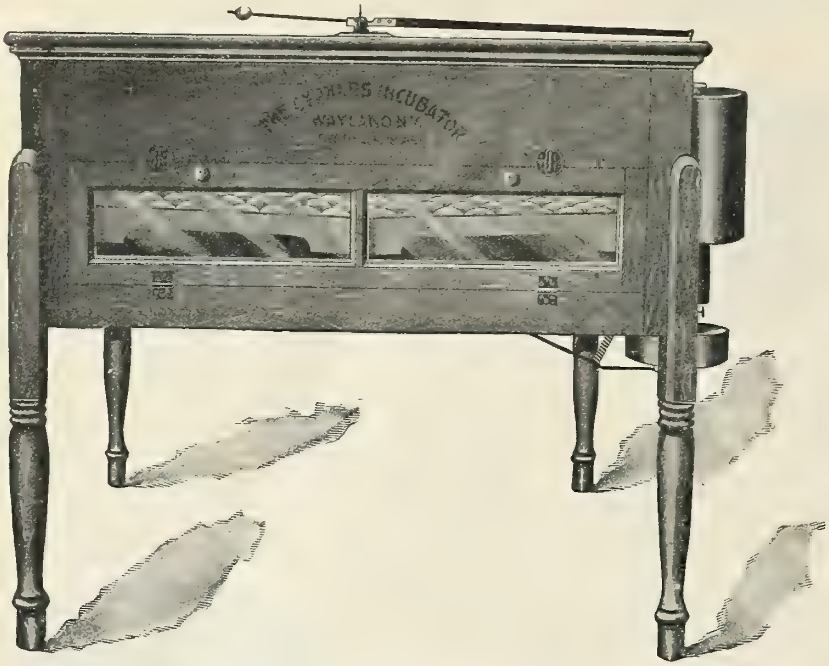


No. 333.

7 in., each,	20c.	Per dozen,	$2.00
8 in., each,	25c.	Per dozen,	2.50
9 in., each,	30c.	Per dozen,	3.00

Discount on Standard Pots and Seed Pans, 20 Per Cent for any Quantity Less than 100—Lots of 100 or Over 25 Per Cent—500 and Over 40 Per Cent—Larger Lots Ask for Price.—Hanging Vases and Calla Pots are Net.

The Cyphers Non-Moisture Incubators and Three-Apartment Brooders.



THE CYPHERS Non-Moisture, Self-Ventilating, Self-Regulating Incubator, 220-Egg Size.

PRICE LIST OF CYPHERS INCUBATORS

No. 0,	60 Hen Eggs,	48 Duck Eggs,	$14.00	No. 3,	360 Hen Eggs, 290 Duck Eggs,	$37.00
" 1,	120 " "	100 " "	20.00	" 2,	Double Decker, 440 Eggs,	58.00
" 2,	220 " "	190 " "	29.00	" 3,	Double Decker, 720 Eggs,	74.00

Freight Paid at Above Prices to any Freight Depot in the United States.

THE CYPHERS INCUBATORS, for which we are authorized agents, are FULLY GUARANTEED by the manufacturers as follows:—To require no supplied moisture; to be self-ventilating; to be self-regulating; to operate with less oil and at less expense than any other make of incubator; to be fireproof, having the best, the safest, and the most costly built heater attached to any incubator; to be the easiest to operate and control, requiring less labor and attention than any other make of incubator; to produce larger and stronger chicks than any other make of incubator on the market; also, that where it is run with any incubator of a different make, it shall, in three or more hatches bring out a larger percentage of the fertile eggs in good, healthy chicks or ducklings than does its competitor.

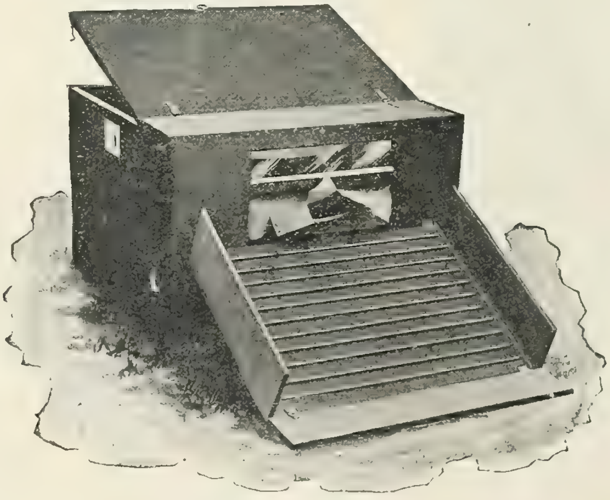
The Result is an Incubator that is Positively Self-Regulating, Self-Ventilating and which Requires No Supplied Moisture.

The Cyphers Incubators and Brooders are used and recommended by a larger number of State Experiment Stations than all the other makes combined. They are also used by the largest poultry raisers in the United States; whether you are in it for fun or money you will make no mistake if you buy the CYPHERS.

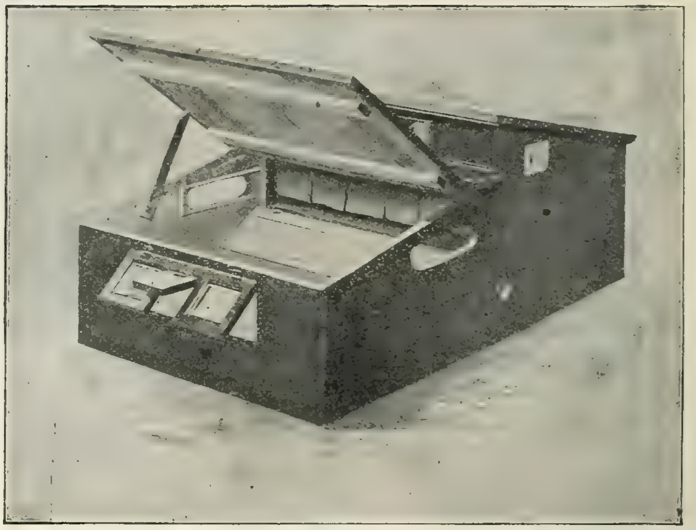
Special Advantages in Buying of us: First, we sell to you at factory prices. Second, we save you valuable time by carrying a large line of Cyphers Incubators and Brooders in stock, thus securing you Quick Delivery, the saving in time amounting to perhaps three or four weeks. Third, we save you freight from the factory to your place. This is highly important. The Cyphers goods are constantly on display at our place of business, and we invite a personal call, if convenient. All told, it is plainly to YOUR ADVANTAGE to place your order with us. We guarantee fair treatment and prompt service in all particulars.

Cyphers Three-Apartment Outdoor Brooder .. and the .. Cyphers Sectional Indoor Brooder.

Next to its incubator, The Cyphers Company especially prides itself on the three apartment Outdoor Brooder it manufactures. They unhesitatingly guarantee this to be the best brooding device on the market, for either indoor or outdoor use, regardless of price, and it will be noted that all of the Cypher Brooders (the company manufactures one grade only, but two sizes) are sold at reasonable figures.



The Cyphers Indoor Brooder, Style B.



The Cyphers Unequalled Three-Aparment Outdoor Brooder (front view) Style A.

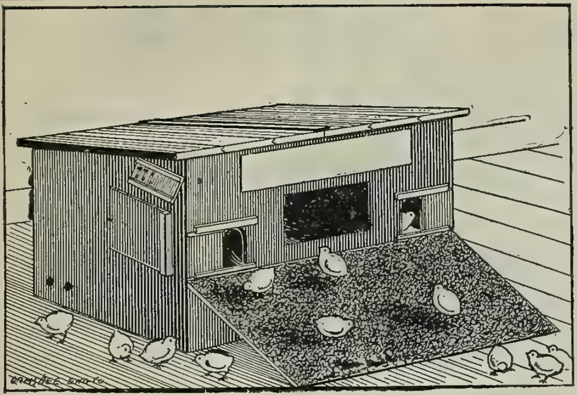
Price List of Cyphers Indoor and Outdoor Brooders.

STYLE B—Indoor	$10.00
STYLE A—Outdoor	12.00

Price List of Cyphers Sectional Brooders.

Two Section, all complete	$18.00
Three Section, all complete	$23.00
Four Section, all complete	$28.00

Each Section will care for 100 chicks.



$5.00 Outdoor Prize Brooder.

PRIZE BROODER.

This is the best cheap brooder on the market; it is built to set close to the ground, and there is no open space for the cold to get in. The lamp is very easy of access, the floor being raised up from the ground. There is no danger of water, and for beginners who do not want to buy a Cyphers we can recommend this one. We have sold a lot of them and they give perfect satisfaction. Run shown in cut not included at price quoted.

Net Cash Price, $5.00.

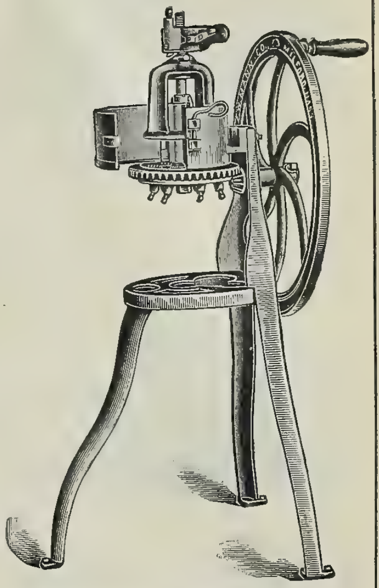
Mann's New Open Cylinder Bone Cutters.

Practical Poultrymen are for the most part concerned with facts. They want eggs when eggs are worth most, and they want to produce them at the least cost. They want to maintain the health of their flocks and promote growth. And every year more of them are demonstrating to their own satisfaction that raw bone, meat and gristle do these things.

The Fowl Demands Raw Animal Food. Every one knows how eagerly a fowl will chase clear across a half-acre lot to gobble up a bug or a worm.

When Hens Get Such Food in abundance they lay in abundance. When they are deprived of such food they do not lay so abundantly. It is the poultryman's business to see to it that they get raw animal food in some form. He can not attain the best success if he neglects it.

Properly Cut Green Bone, with meat and gristle attached, supplies this food in the most available manner. And the MANN'S provides the easiest and quickest way of preparing it. TRY IT AND SEE.



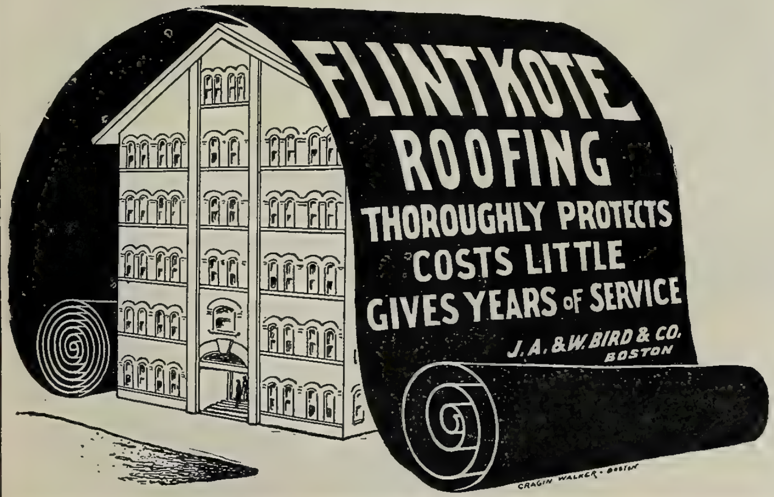
NET CASH PRICE LIST.

No Discount from these Prices.

No. 5C, (with Crank Handle)	$ 6.00	No. 14, (Large Power Cutter)	$ 76.00
No. 5B, (with Balance Wheel)	8.00	No. 16, (Made to Order)	225.00
No. 5BM, (with Balance Wheel and Iron Stand)	10.40	Clover Cutter, (with Balance Wheel)	8.00
No. 7, (with Balance Wheel)	12.00	Clover Cutter, (with Balance Wheel & Iron Stand)	10.00
No. 9, (Standard Bone Cutter, Iron Stand)	18.40	Mortar (Perforated, Cast Iron)	3.00
No. 11, (Combination Power Cutter)	26.00	Swinging Feed Tray, (18 inches long)	1.00
No. 12, (Small Power Cutter)	30.00	Swinging Feed Tray, (27 inches long)	1.25
No. 15, (Large Power Cutter)	60.00	Swinging Feed Tray, (36 inches long)	1.50

Notice Reduction in List Price from Last Year.

FLINTKOTE ROOFING.



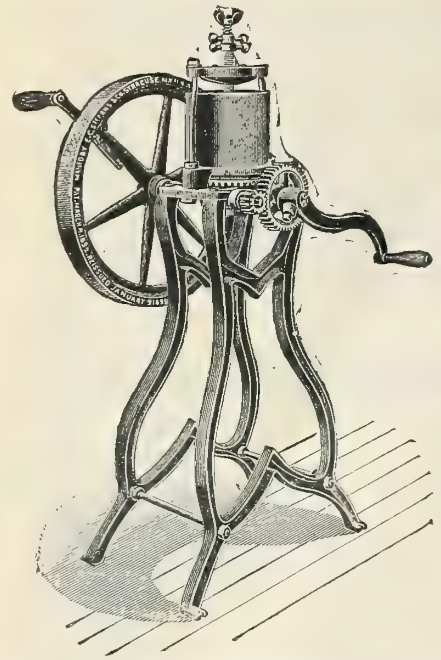
Flintkote Roofing is made from perfect non-conducting materials and is water, acid and alkali proof. It is therefore unaffected by heat and cold, or fumes of any kind, and can be laid in all climates. Coming in four plies—½, 1, 2 and 3 ply—it is suitable for any roof, provided there is a pitch of ½ inch to the foot or over, and can be quickly and cheaply laid.

Price List Flintkote Roofing.

½-Ply per square (100 square feet)	$1.75
1-Ply “ “	2.25
2-Ply “ “	3.25
3-Ply “ “	4.00

Each roll contains 216 square feet. Two squares (200 square feet) and 16 square feet for laps and butts. *Inside* each roll is packed sufficient nails, caps and cement for laying. The above are included in price quoted.

THE STEARNS BONE CUTTER.


MANN'S ... SYRACUSE N.Y. U.S.A.
PAT. ... JANUARY ...

No. 7. Weight 135 lbs.

"Don't Keep Hens, Make Them Keep You."

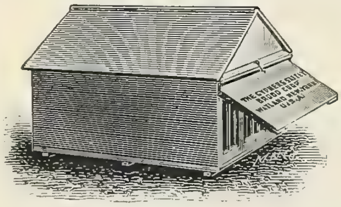
GREEN CUT BONE Properly Fed will increase the production of eggs from fifty to one hundred per cent. It will give you strong, vigorous chicks, will promote their rapid growth, and reduce the liability of disease.

This is acknowledged by the most prominent poultry experts in the country, and it has been proven by actual tests made by the many users of

Stearns Green Bone Cutters.

Net Prices of Stearns Green Bone Cutters.

No. 2, with short legs	$12.00
No. 3, for power	30.00
No. 3, with gearing and extra balance wheel	35.00
No. 4, with balance wheel	8.00
No. 4, with crank	6.00
No. 6, with legs	15.00
No. 6 for use on bench	12.00
No. 7, with legs and ball bearings	20.00
No. 5, with heavy balance wheel	8.00


THE CYPHERS ... BROOD COOP ...

Cyphers Brood Coop.

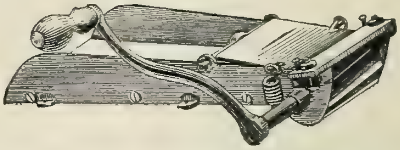
These Coops are 20x30 inches in size, have a strong board floor, are water-tight and very durable for so cheap a coop.

Price, $2.25 each.

The Stearns Clover Cutter.

A very handy but cheap cutter for small poultry keepers. Fastens to any table or bench.

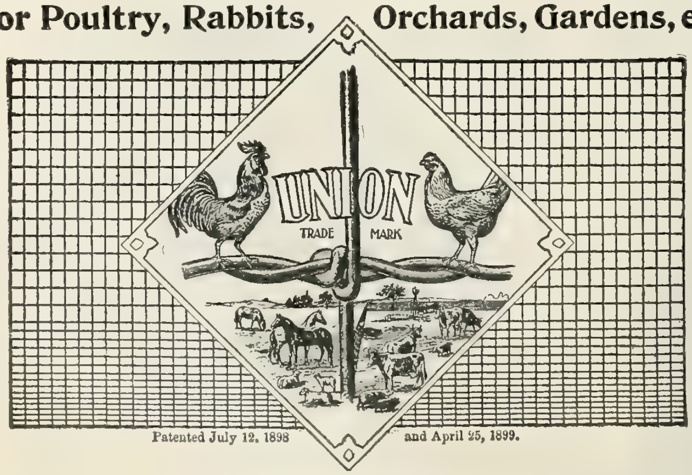
Price, $3.00.



UNION LOCK POULTRY FENCE.

For Poultry, Rabbits, Orchards, Gardens, etc.

All main strands are two wires twisted together.



Patented July 12, 1898 and April 25, 1899.

Pickets 3 in. apart. Cables 1¼ in. apart at bottom.

NET RETAIL PRICE LIST.

10 Rod Rolls (165 feet)	24 in. wide, $2.80	10 Rod Rolls (165 feet)	60 in. wide, $4.75
10 " "	36 " 3.50	10 " "	72 " 5.40
10 " "	48 " 4.00		

In comparing prices with ordinary poultry netting remember these bales are 15 feet longer. We don't sell less than full rolls.

THE horizontal lines of this fence are all composed of two No. 20 galvanized steel wires twisted together.

Beginning at the bottom the first seven cables are 1¼ inches apart, the next three cables are 1½ inches apart, then six cables 2 inches apart, and all above that 4 inches apart. This gives a mesh of 1¼ x 3 inches at the bottom where it is needed for small chicks, and above two feet, where fowls can only reach when on the wing, the mesh is 3 x 4 inches.

On account of the picket being at right angles to the cables, this fence will fit any unevenness of the ground without cutting, which is an advantage not possessed by any diamond mesh netting or diagonal mesh fencing.

As all of the cables are of the same length and run the whole length of the fabric every part can be stretched perfectly. The fence is amply strong as the breaking strain of a No. 20 two-wire cable is 192 pounds and there are 10 cables in the first foot of fence.

Because of its strength and construction this fence requires no top or bottom rail.

American Field and Hog Fences.

MADE OF GALVANIZED WOVEN STEEL WIRE.

The strength and durability of the American Fences, together with their low cost, combine to give them a wonderful popularity.

Construction. — The main structural features are: Large and strong wires throughout; top and bottom bars No. 9 galvanized wire; intermediate bars No. 11 galvanized wire; stays No. 12 galvanized wire; stays 12 or 6 inches apart, as desired; Hinge Joints at every intersection of stay and bar; Tension Curve at every intersection of stay and bar and at proper intervals between stays.

AMERICAN FIELD AND HOG FENCING.

It is the Strongest Fence Made because of the good quality and amount of material properly distributed throughout its entire construction. No. 9, No. 11, No. 12 wire as used in the American Fence are sufficiently heavy and strong to meet all requirements, and with them the American Fence is practically everlasting, with reserve strength enough to meet every possible contingency or special use to which this fence may be subjected.

Regular Style, 12-Inch Stay.

Style No.	Height.	Price per rod.
12	58 inches	$ .92
11	49 "	.82
10	41 "	.74
9	34 "	.66
8	28 "	.58
7	22½ "	.50

Regular Style, 6-Inch Stay.

Style No.	Height.	Price per rod.
12	58 inches	$1.16
11	49 "	1.04
10	41 "	.90
9	34 "	.82
8	28 "	.72
7	22½ "	.62

Special Hog, Cattle, Horse Fence, 12-Inch Stay.

Style No.	Height.	Price per rod.
11	55 inches	$ .84
10	47 "	.74
9	39 "	.66
8	32 "	.58
7	26 "	.50
6	20 "	.38

Special Hog, Cattle, Horse Fence, 6-Inch Stay.

Style No.	Height.	Price per rod.
11	55 inches	$1.10
10	47 "	.98
9	39 "	.84
8	32 "	.74
7	26 "	.62
6	20 "	.54

Special Sheep and Horse Fence, 12-Inch Stay.

Style No.	Height.	Price per rod.
6	35 inches	$ .50

Special Sheep and Horse Fence, 6-Inch Stay.

Style No.	Height.	Price per rod.
6	35 inches	$ .66

Specal Farm Fence, 12-Inch Stay.

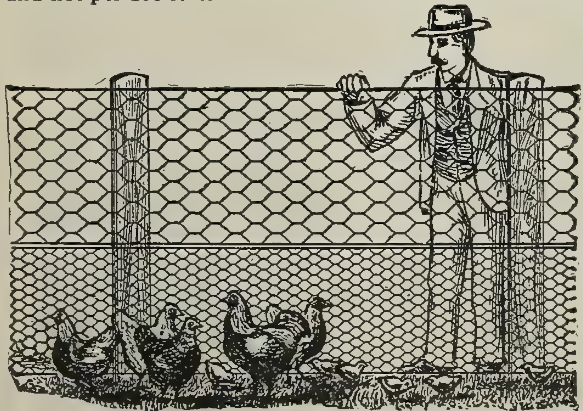
Style No.	Height.	Price per rod.
9	49 inches	$ .70
8	45 "	.62

Special Farm Fence, 6-Inch Stay.

Style No.	Height.	Price per rod.
9	49 inches	$ .92
8	45 "	.78

Galvanized Special Twist Poultry Netting.

A Very Popular Fence for poultry yards, or for any purpose, where a heavy stock fence is not required. This fence is woven and afterwards galvanized, which makes it very durable. We can furnish it in all widths, from one to six feet, and in one and two-inch mesh. We handle this in very large quantities, and are, therefore, in position to make very low prices, as you will see below. Parties wanting five or more rolls will do well to write us for special prices. **Please take notice** that the prices quoted are for rolls of 150 feet in length and not per 100 feet.

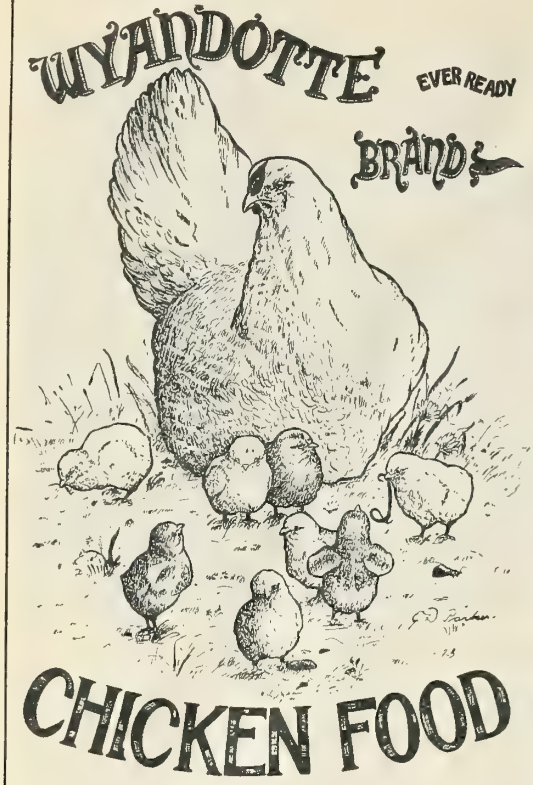


Price Per Roll of 150 Running Feet.

1	ft.	No. 19 Wire,	2 in.	Mesh, $	.75	1	ft.	No. 20 Wire,	2 in.	Mesh, $	.70
1½	"	"	"	"	1.15	1½	"	"	"	"	1.05
2	"	"	"	"	1.50	2	"	"	"	"	1.40
2½	"	"	"	"	1.90	2½	"	"	"	"	1.75
3	"	"	"	"	2.25	3	"	"	"	"	2.10
4	"	"	"	"	3.00	4	"	"	"	"	2.80
5	"	"	"	"	3.75	5	"	"	"	"	3.50
6	"	"	"	"	4.50	6	"	"	"	"	4.20
1	"	"	1 in.	"	2.00	1	"	"	1 in.	"	1.65
1½	"	"	"	"	3.00	1½	"	"	"	"	2.50
2	"	"	"	"	4.00	2	"	"	"	"	3.30
2½	"	"	"	"	5.00	2½	"	"	"	"	4.15
3	"	"	"	"	6.00	3	"	"	"	"	5.00
4	"	"	"	"	8.00	4	"	"	"	"	6.60
5	"	"	"	"	10.00	5	"	"	"	"	8.25
6	"	"	"	"	12.00	6	"	"	"	"	10.00

We do not have 4, 5 and 6 feet 1 inch, 19 and 20-inch in stock.

SOMETHING NEW AND GOOD.



WYANDOTTE BRAND

Ever-Ready Chicken Food.

FOR a number of years past we have felt the need of a Chicken Food that could be fed to young chickens just out of the shell, that would be much better than the common grain usually fed and be a safe and nutritious food, and something that could be sold at a medium price, so that any one raising chickens, no matter how few or many, could afford to feed it. Thousands of young chicks are lost annually by feeding wet food when first hatched. This food is given dry and will take the place of all kinds of grain. Wet or even moist food of any kind should never be fed to young chicks, if you expect to raise them.

For the first 24 or 36 hours, hard boiled eggs should be fed. Those tested out as not being fertile will answer that purpose. After that, feed nothing but Wyandotte Food until they are large enough to to eat whole grain. Feed this often and give them plenty of fresh water within handy reach.

Wyandotte Food is not an experiment and is not put up in fancy packages or sold at drug-store prices, but is something we mix ourselves, and there is nothing used that cannot be fed alone with perfect safety, and much less when mixed together. In preparing the food our aim has been to get a safe and nutritious food that would be a balanced ration without the use of any other kind of feed.

It contains the choicest imported Bird Millets, fine cracked charcoal, free from dust and thoroughly dried cracked corn and wheat. To this we add a small amount of fine oyster shells and grit, as these two articles are as important as the first named. The sale of the food has been wonderful in the short time we have had it on the market. We ask you to give it a trial and we are confident that we shall have you as a permanent customer. Where we expected to sell tons last season we sold carloads, and we could print testimonials by the yard from parties who have used it and many of them have tested it carefully beside all other kinds of feed.

There never was a time when the outlook for raising Broilers and Poultry was as promising as at the present time, but success can only be had by knowing how to feed to get the best results for the money expended. Order a trial bag and if you have not tested it before, try it with other foods and note the results. Wyandotte Food is put up in 25, 50 and 100 lb. bags, and if you cannot get it in your town write us and we will mail you a sample free, if you will give us the name of your local grain dealer.

Retail price 25 lb. Bags, 75 cents. 50 lb. Bags, $1.35. 100 lb. Bags, $2.50.
Grain and Feed Dealers write for wholesale prices.

Dr. Hess' Stock Food

FOR HORSES. DR. HESS' FOR CATTLE. TRADE MARK REGISTERED STOCK FOOD FOR HOGS. FOR SHEEP.

AND THE WRITTEN GUARANTEE.

Two Mighty Principles Combined for the Security of the Farmer.

The Written Guarantee compels us to refund your money if it fails to fulfill every claim.

Dr. Hess' Stock Food is the great stock tonic and milk producer. By so strengthening and improving the digestion the animal is enabled to appropriate every particle of nutrition from the food fed, thereby saving feed and compelling the quicker formation of fat, bone, muscle and milk, shortening the feeding period of the average animal at least thirty days.

7 lb. Package Dr. Hess' Stock Food	$ .50	25 lb. Pail Dr. Hess' Stock Food	$1.60
12 lb. Sack " " "	.75	50 lb. Sack " " "	2.85
25 lb. " " " "	1.45	100 lb. " " " "	5.00

Dr. Hess' Stock Food is recommended by eminent scientists as the logical preventive for diseases and epidemics which frequently attack a community.

DR. HESS' POULTRY PAN-A-CE-A.

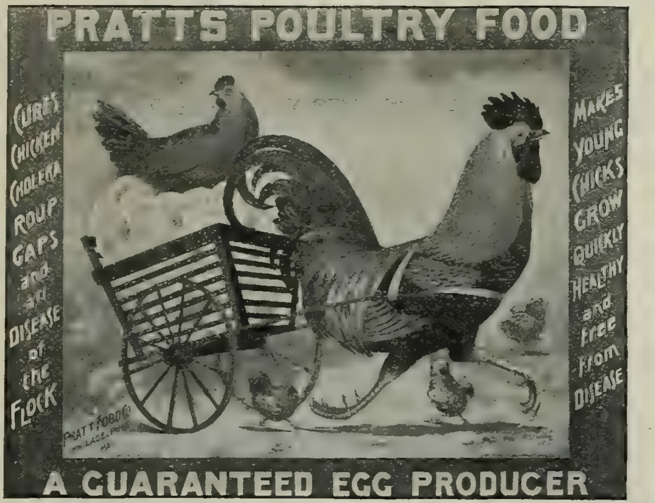
Dr HESS
POULTRY
TRADE MARK REGISTERED
PAN-A-CE-A

CURES DISEASE AND MAKES HENS LAY.

SOLD ON A WRITTEN GUARANTEE.

1½ lb. Package Dr. Hess' Poultry Pan-a-ce-a, 25 cents.
5 lb. " " " " " 60 "
12 " " " " " " $1.25.

POULTRY FOODS AND CONDITION POWDERS of ALL KINDS.


PRATTS POULTRY FOOD
CURES CHICKEN CHOLERA ROUP GAPS and all DISEASE of the FLOCK
MAKES YOUNG CHICKS GROW QUICKLY HEALTHY and free from DISEASE
A GUARANTEED EGG PRODUCER

We Handle Poultry Supplies in Large Quantities, and We Have a Large Assortment of the Reliable Brands to Choose From.

Pratts Poultry Food

is the *Standard.* We have sold it for nearly ten years and our trade is constantly increasing. To obtain the best results it should be fed regularly. It keeps the poultry in a good, healthy condition, which is necessary to egg production.

PRICES.

Poultry Food, large size, each	$ .60
Poultry Food, small size, each	.25
Poultry Food, 12 lb. bags, each	1.25
Poultry Food, 25 lb. bags, each	2.50

Old Fashioned Beef Scraps. These Scraps are ground fresh for us, and do not contain any oyster shell or tankage, but are good fresh bone and meat. Per 100 lbs., $2.25.

Cracked Bone. Fresh cracked bone, without any meat, will keep for any length of time. Should always be kept in a box where the hens can get to it. Per 100 lbs., $2.00.

Ground Oyster Shells. We buy shells direct from Baltimore in one hundred ton lots, and handle nothing but the best grade, free from dust. Per 100 lbs., 60 cents.

Granite Grit. This is the best Milford Grit, crushed to just the right size for poultry or pigeons. Per 100 lbs., 75 cents.

Clover Meal. This is the latest and best food for all kinds of poultry. It is clover as near pure as can be had, finely ground, and is mixed with other kinds of feed, and being light, it makes a very nutritious food and is also an egg producer. Per 100 lbs., $2.00.

Cut Clover. This is same as above, only cut about one-quarter of an inch long, and is either fed dry or mixed with feed. Per 100 lbs., $2.00.

Sea Shells. This is similar to common oyster shells, only they are very small shell and are fed whole, and as they contain a large amount of meat, are a grand egg producer. Per barrel of about 150 lbs., $1.75.

Sheridan's Condition Powders. These goods are known in every town and need no recommendation from us. Large size, regular $1.00 size, our price, 80 cents; small, 20 cents.

Dole's Horse, Cattle and Poultry Food. This is one of the best foods for either of the above. Once tried, always used. Large box, 75 cents.

Meat Meal. Is finely ground meat and blood, and is preferred by many to Beef Scraps, as it may be mixed with wet feed and prevents waste. Per 100 lbs., $2.00.

Wooden Medicated Nest Eggs. This is a wooden egg with a hole in it and stuffed with cotton, and by dropping in a few drops of carbolic acid once in a while, they will kill and prevent lice. Each, 5 cents, postpaid; dozen, by express, 30 cents.

Glass Nest Eggs. Each, 5 cents. Dozen, 30 cents.

Kaffir Corn. This is probably one of the best, as well as the cheapest, food for hens, chickens or pigeons. It is about the size of a very small pea, and is fast taking the place of other grains for poultry food. Try it. Per 100 lbs., $1.75.

PRATTS HORSE, CATTLE AND HOG FOOD.

WHAT PRATT'S FOOD WILL DO FOR HOGS.

Hog cholera is positively unknown where Pratts Food is fed. Pratts Food positively prevents and cures hog cholera in its early stages. We have cured many cases of hog cholera when the animal has been too weak to stand and given up to die. It is to be remembered that Pratts Food is to be fed to *prevent* cholera as well as to *cure it.* The above is also true of cattle. The constant feeding of Pratts Food, which is the best animal regulator known, will enable the cattle to receive full benefit from their food.

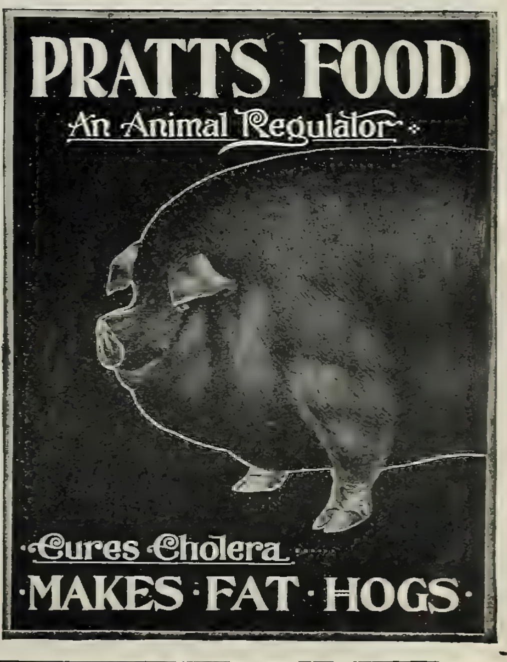
Hog and Cattle Food, 12 lb. bags, each 75 cents. 25 lb. bags, each $1.50.

PRATT'S BOOK.

SHORT TALKS.

Every Owner of a Horse, Cow, Sheep, Hog or Hen Should Have One.

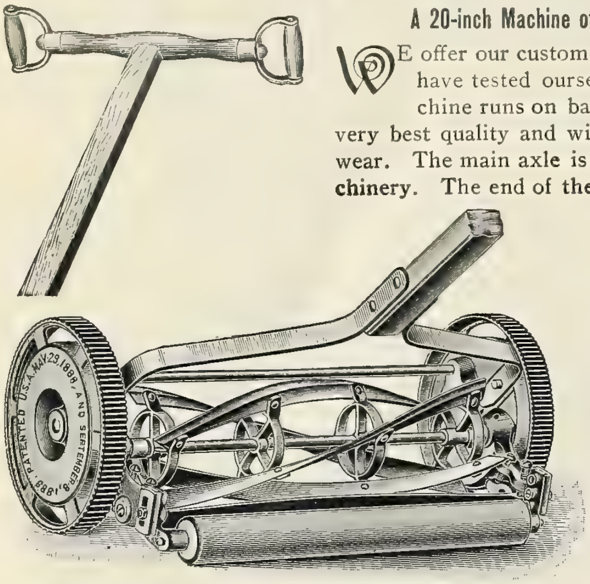
MAILED FREE. SEND FOR IT.



LAWN GOODS OF ALL KINDS

THE KNOLLWOOD BALL BEARING HIGH WHEEL SPADE HANDLE LAWN MOWER.

A MACHINE THAT POSSESSES ALL THE GOOD QUALITIES OF OTHER STYLES.


PATENTED U.S.A. MAY 29, 1894, AND SEPTEMBER 8, 1885

A 20-inch Machine of this make runs as easy as a 12-inch of the old style, and a Handle made to fit your hands.

WE offer our customers this machine not as an experiment, but as a guaranteed article, one that we have tested ourselves during the past season, and know what we are talking about. This machine runs on ball bearings (and all first-class machines ought to). The balls used are of the very best quality and will last for years. They are enclosed in steel cups, which protect them from wear. The main axle is steel and lathe fitted and is adjusted as nice as any high priced piece of machinery. The end of the axle where it comes in contact with the balls is cone-shaped, and any possible wear can be easily taken up. The machine has a nine-inch wheel, four knives of the best quality of steel and, last but not least, **a handle that is made to fit your hand.** (See the spade handle in cut.) After giving you the best mower it is possible for us to get, we have put on to it a handle we have all been looking for. With this Spade Handle the operator has perfect control over the machine and can handle it perfectly on a side hill or on narrow borders. We shall make this our leading machine, and therefore shall offer it at a popular price, which is within the reach of all. We guarantee to take back every machine that is not satisfactory, after a fair trial. While this machine is the best one on the market for private homes, it is especially adapted for parks, cemeteries and large lawns, and to that class of buyers we will make special prices in quantities.

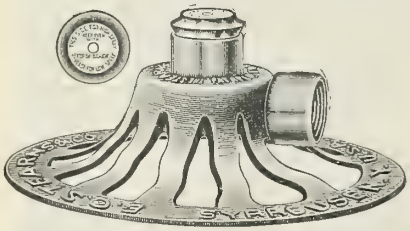
14-inch	**$6.85**	**18-inch**	**$7.35**
16-inch	**7.10**	**20-inch**	**7.60**

THE FINLEY ROTARY LAWN RAKE.

With the Knollwood Mower shown above and the Finlay Lawn Sweeper the care of a lawn is made a pleasure instead of a dread. This is a thoroughly satisfactory machine for raking the lawn after mowing. It gathers up and throws back into the large collecting box all cut grass, leaves, small stones, sticks, etc., nothing escapes. When the box is full, it is removed, dumped and replaced in a moment. It works something like a carpet sweeper, excepting that the revolving rakes have flexible steel teeth in place of bristle brushes, these perfectly combing the grass. It can be set to rake low or high, as desired. For cleaning crab grass it is invaluable. It is simple and strong, and can easily be pushed by a man. Sweeps 20 inches wide; it does the work of at least three men, leaving the lawn in beautiful condition, clean, bright and green.

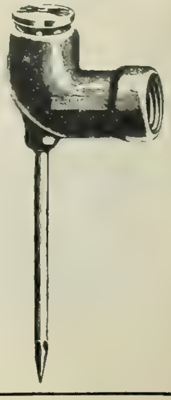
Price, $12.00 (net).

The Stearns Reversible Lawn Sprinkler.



This Sprinkler is suitable for use with either high or low water pressure; the cap is reversible, and a high or low spray covering a wide area of ground may be secured by simply reversing the cap. This is the only Lawn Sprinkler with which the spray may be gauged by an adjustment on the sprinkler, and a spray covering a wide space secured *even with a low water pressure.* Its spray covers a larger area with the same water pressure than any sprinkler made. It is simple and strong in construction, consisting of three pieces only, the standard, the cap and the spring. The standard is finished in black enamel, the cap being of non-rusting metal, nickel plated. The standard is threaded to fit a standard ¾-inch hose connection, and is provided with an internal rubber packing. It will not clog, there being no small holes to fill up, and thus retard the spray. **Price, 75 Cents.**

The Stearns Adjustable Lawn Sprinkler

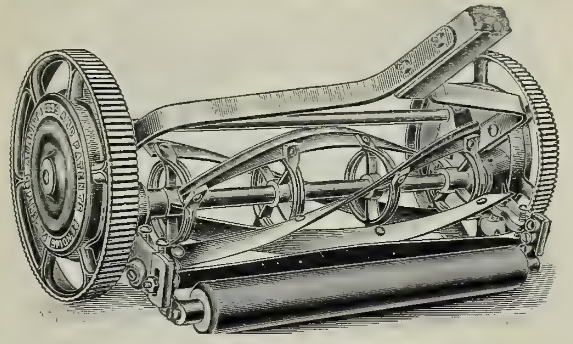


This Lawn Sprinkler is intended to meet the demand for an inexpensive sprinkler which will allow the water passing through it to cover a wide area of ground. The quantity of the spray may be readily gauged by turning the adjustable cap on the screw. Sufficient tension to hold the cap firmly on the screw is furnished by a coiled spring, which at all times exerts an upward pressure against the bottom of the cap.

Price, 50 Cents.

The Cycle Mower.

High Wheel. = Ball Bearings.

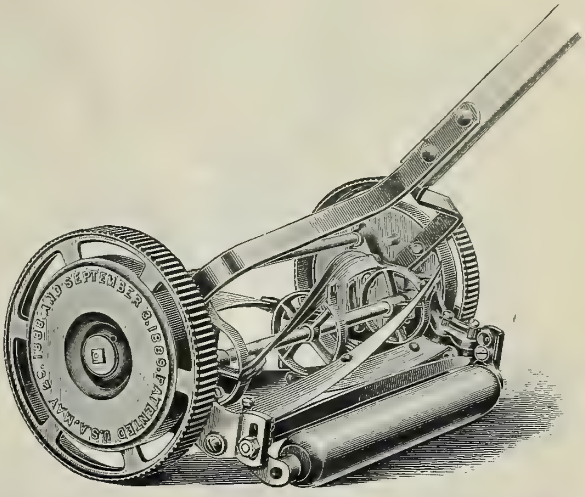


This machine, as its name implies, is built like a cycle. The ball-bearings are the best it is possible to make. It has four knives, a 10-inch open wheel, which makes it light but very strong and durable. This is our *next best machine*, and equals in every way the *Knollwood* excepting the handle.

14 inch....$7.00. 16 inch....$8.00. 18 inch....$9.00.
20 inch........$10.00.

Rossmoyne Lawn Mower.

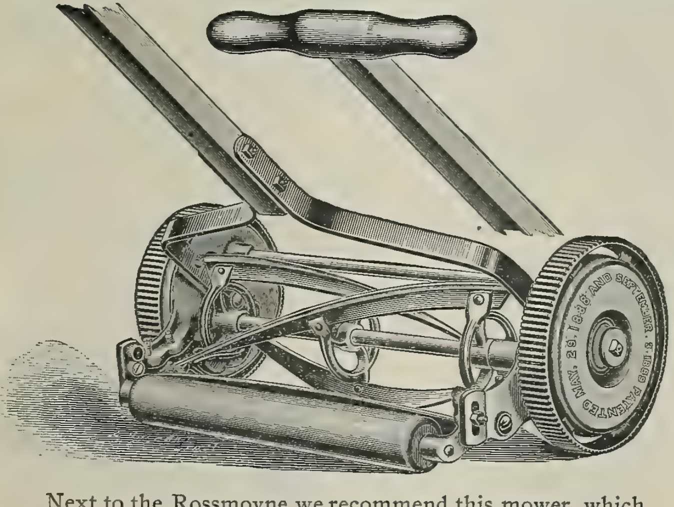
Style
C.



This machine has four knives, high wheels, and is of same grade as the Charley Ross, with the extra knife and high wheel. It runs on ball-bearings of the same quality as those used on other machines. It is a first-class, medium-price mower. All the parts are fitted on a lathe, and we warrant every machine we sell. For a medium-price machine, you will make no mistake in buying this one.

12 inch....$5.00. 14 inch....$5.25. 16 inch....$5.50.
18 inch....$5.75. 20 inch....$6.00.

The Charley Ross Lawn Mower.

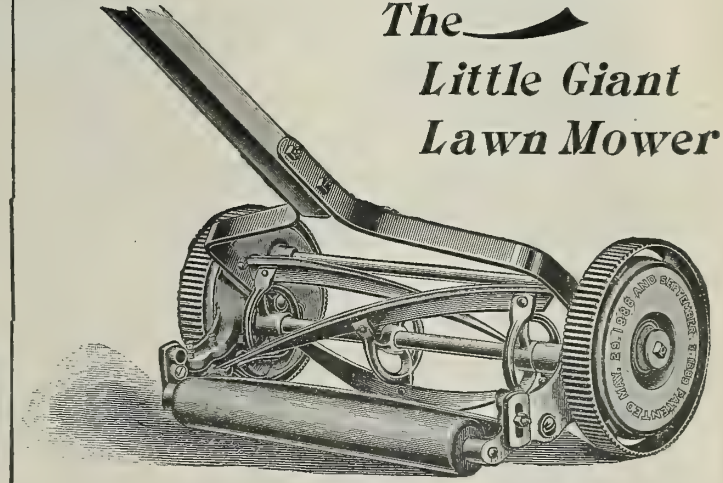


Next to the Rossmoyne we recommend this mower, which is made for us by the most reliable manufacturers in the country. It is a strictly high-grade machine in every particular and the extra rim on the wheel makes it nearly equal to our Rossmoyne high wheel. If you are looking for a three-knife machine at a medium price try this one. 8 in. wheel.

This machine has Ball-Bearings and Three Knives.

12 inch....$4.50. 14 inch....$4.75. 16 inch....$5.00.
18 inch....$5.25. 20 inch....$5.50.

The Little Giant Lawn Mower



For the benefit of those who want a low-priced mower or those who have but a small amount of grass to cut, we offer this machine, and we think we are safe when we state that it is as good as one-half of the mowers sold as a high-grade machine, and, being a light-running mower, is preferred by many to the higher grade styles. We warrant every machine and have never had to replace one. 8 in. wheel.

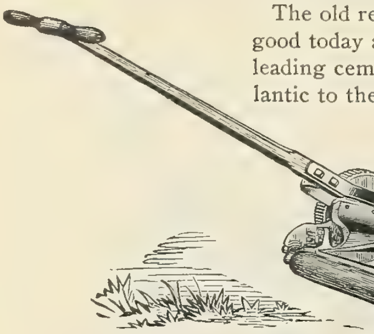
—NET PRICES.—

12 inch..$2.75. 14 inch..$3.00. 16 inch..$3.25. 18 inch..$3.50.

All the machines shown on this page have the Flexible Lower Knife and may be adjusted by a child.

The Philadelphia Lawn Mower.

STYLE M.



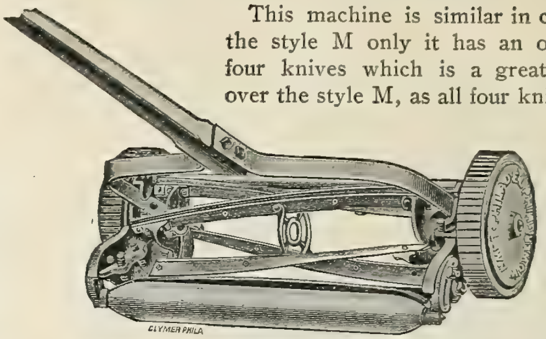
The old reliable Philadelphia Mower is as good today as ever. It may be found in the leading cemeteries and parks from the Atlantic to the Pacific, and is imitated by more manufacturers than any other make. This is guarantee enough that it is the old reliable.

STYLE M. SOLID WIPER. 7-INCH WHEEL.

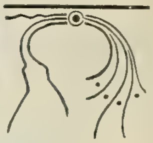
List price, 14 inch,..........$17.00	Net price,..........$6.00
List price, 16 inch,.......... 19.00	Net price,.......... 6.50
List price, 18 inch,.......... 21.00	Net price,.......... 7.00

The Philadelphia Lawn Mower.

STYLE S.



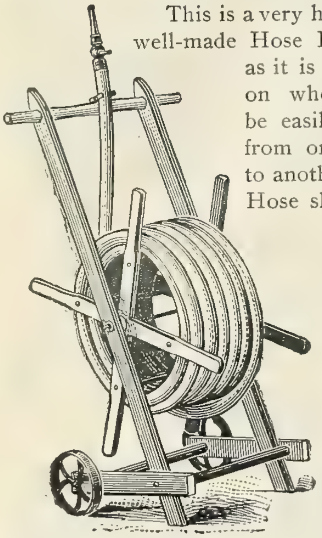
This machine is similar in construction to the style M only it has an open wiper and four knives which is a great improvement over the style M, as all four knife mowers do better work than those with three.



STYLE S. 4-KNIFE. OPEN WIPER. 7 IN. WHEEL.

Width of cut, 14 in.	Weight, 33 lbs.	List, $17.00	Net, $6.50
Width of cut, 16 in.	Weight, 34 lbs.	List, 19.00	Net, 7.00
Width of cut, 18 in.	Weight, 36 lbs.	List, 21.00	Net, 7.50
Width of cut, 20 in.	Weight, 40 lbs.	List, 23.00	Net, 8.00

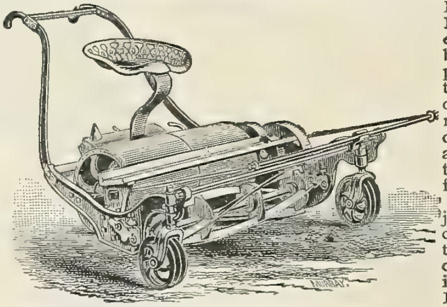
The Eclipse Hose Reel.



This is a very handy and well-made Hose Reel and as it is mounted on wheels can be easily moved from one place to another. Hose should always be wound on a reel as it prevents it from rotting.

Price, 75 Cts.

New Excelsior Horse Lawn Mower.



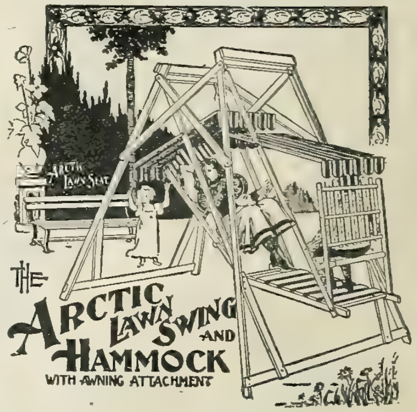
It is quite essential to those having extensive lawns who desire to keep them in fine order that the grass should be evenly cut in order to produce a beautiful appearance. The New Excelsior Horse Lawn Mower is especially built for this purpose, and the numerous testimonials received from all parts of this and foreign countries justify us in claiming for this machine that it is the best Horse Lawn Mower on the market. We furnish the Mower with side-draught attachment that permits the horse to walk only on the cut grass. We use the sectional caster wheels which do not roll down the standing grass nor leave unsightly marks upon the lawn. For many years the Excelsior Lawn Mower has been in use on the public parks in large cities, on college lawns throughout the country, at military posts and on extensive private parks in this and foreign countries, and have uniformly given entire satisfaction. We fully guarantee them in every particular.

The Horse Lawn Mower is made in Four Styles, viz.:

25-inch cut, without Seat or Shafts, . . .	$ 65.00
30-inch cut, with Seat and Shafts, ...	110.00
35-inch cut, with Seat and Shafts, . . .	135.00
40-inch cut, with Seat and Shafts, ...	170.00

☞Please note that no seat can be used on the 25-inch cut Mower, but shafts and side-draught attachment can be furnished when specially ordered. Full directions for setting up accompany each mower. WRITE FOR DISCOUNT.

Arctic Lawn Swing.



The Arctic Lawn Swing and Hammock with or without Awning.

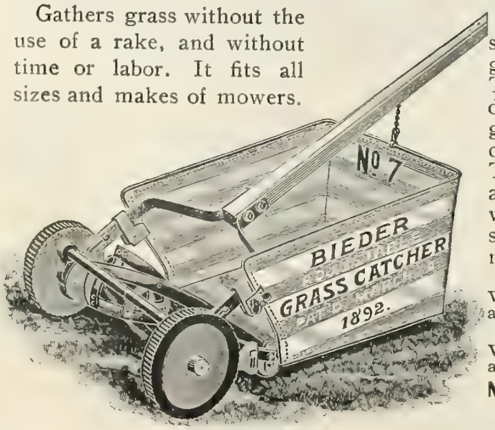
As a swing this affords a most comfortable lounging place you can think of. The backs of the chairs are adjustable and can be set up straight or inclined at as great an angle as you wish.

Price, with Awning,	**$6.50**
Price, without Awning,	**5.50**

BIEDER

Adjustable Grass Catcher.

Gathers grass without the use of a rake, and without time or labor. It fits all sizes and makes of mowers.



Made of bright striped canvas on a galvanized frame. They are made deep, to prevent grass being thrown over sides or rear. They are adjustable in height and width, to fit all sizes and makes of mowers.

No. 7. Fits all Low Wheel Mowers, 18 in. and smaller.

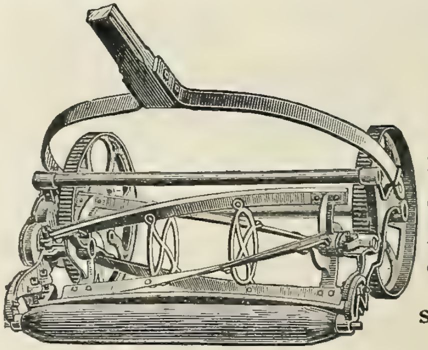
No. 13. Fits all High Wheel Mowers, 24 in. and smaller.

Net Price, 75 Cents,

Either Style.

THE PHILADELPHIA LAWN MOWER.

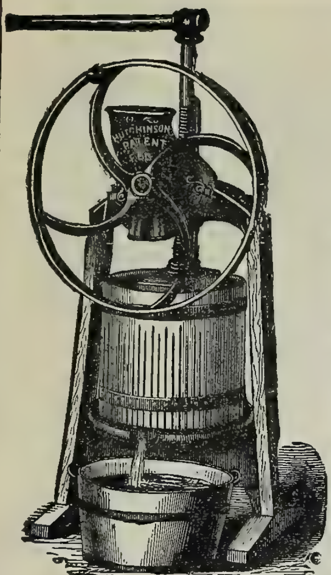
STYLE A.



This is the best Philadelphia Mower made. It has a 10-inch driving wheel; 6½-inch cylinder with four knives; constructed of steel throughout. It has a train of three gears instead of a single pinion.

Style A. 4-Knife. Open Wiper. 10-inch Drive Wheel.

Width of cut, 15 in.	Weight, 39 lbs.	List, $25.00	Net, $10.00
Width of cut, 17 in.	Weight, 42 lbs.	List, 28.00	Net, 11.00
Width of cut, 19 in.	Weight, 44 lbs.	List, 32.00	Net, 12.00
Width of cut, 21 in.	Weight, 46 lbs.	List, 34.00	Net, 13.00



The Hutchinson Family Cider and Wine Mill.

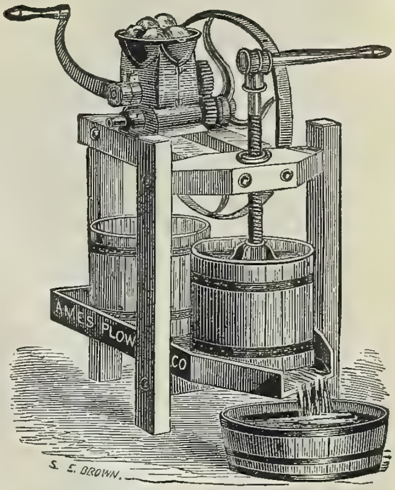
For those who only make limited quantities of cider or wine, this old favorite machine is unexcelled. It will grind from eight to ten bushels of apples, and from ten to twelve bushels of grapes, currants, etc., per hour. The curb (or press) will contain the pomace of one bushel or more of apples. One man can make with it from two to three barrels of cider, or from one hundred to one hundred and fifty gallons of wine per day, while it is always ready to make a pitcher or bucket of cider in a few minutes.

No. 0. List, $10.00. Net, $7.50
No. 1. List, 12.00. Net, 8.50

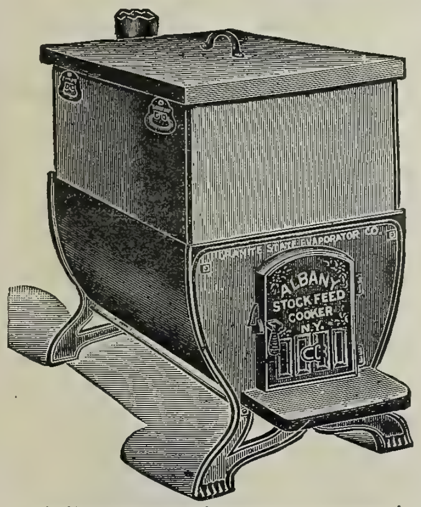
NATIONAL CIDER MILL. FAMILY . . . SIZE.

This mill is especially adapted for family use, being light, strong and convenient. It is exactly the same in principle as the farmers' mill shown below, only of smaller size and sold at a less price. This mill will pay for itself in one season by gathering the windfalls and making them into cider for vinegar and for the market; this is just the size for that purpose.

	List Price.	Net Price.
Two Curbs,	$20.00	$17.00



THE ALBANY COOKER.



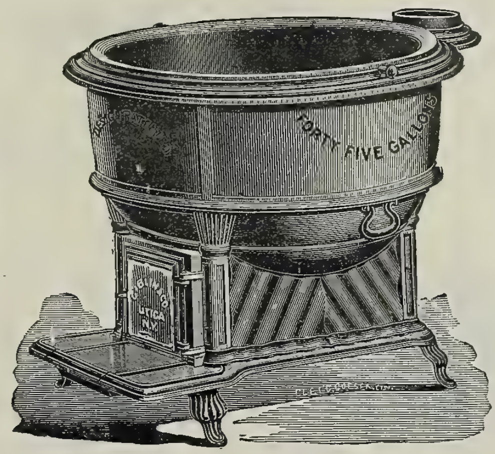
Similar to the Granite State, only lighter in weight and cheaper in price, but well worth the price. Two sizes only.

25 Gallons................ $9.00
50 " 11.00

Discount for Cash, 50 cents.

Furnaces and Caldrons

Made in seven sizes for hard or soft coal or wood. The flues are so constructed that the heat is directed against the whole surface of the Caldron at the same time and none wasted.



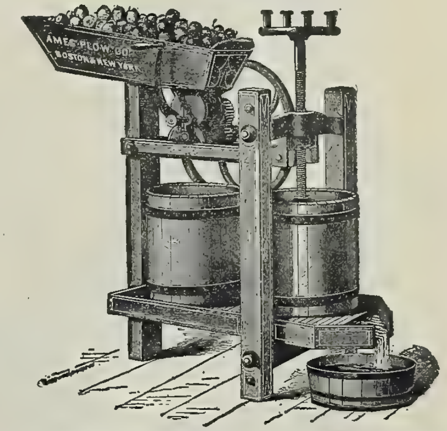
LIST PRICE.

	15 Gal.	22 Gal.	30 Gal.	45 Gal.	60 Gal.	90 Gal.	120 Gal.
	$24.50	$30.50	$37.50	$43.50	$50.00	$88.00	$115.00
COAL FIXTURES.	$3.75	$4.50	$5.40	$6.50	$7.50	$15.00	$22.00

Discount for Cash, 40 per cent.

NATIONAL CIDER MILL.

FARMERS' SIZE.

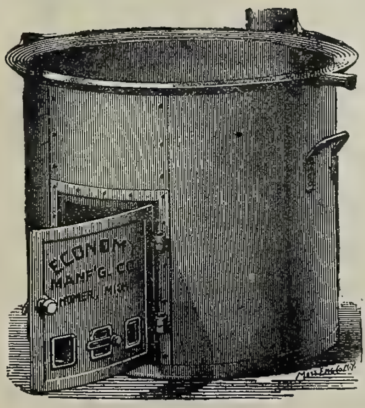


This mill is constructed upon new principles, avoiding the defects in all other mills. The grinding arrangement works in such a manner that the cells of the fruit are all broken and fine pomace produced; a larger per centage of juice is obtained making more cider from a given quantity of apples than can be made by other mills.

Capacity is six to eight barrels per day.

List Price, $28.00. Net Price, $23.00.

ECONOMY BOILERS.


ECONOMY
MANF'G. CO.
HOMER, MICH.

No Farmer can afford to be without a farm boiler or large kettle of some kind. The Economy, shown in cut, is the cheapest of any on the market.

For out-door use only.

PRICES.

40 gallons, list $11.00; discount for cash, $1.00.

60 gallons, list $13.00; discount for cash, $1.00.

70 gallons, list $14.00; discount for cash, $1.00.

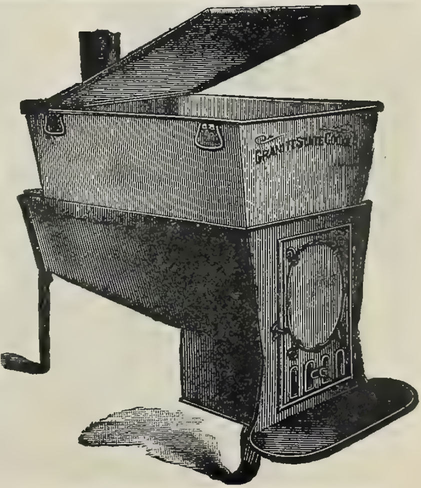
"Granite State" Water Heater.

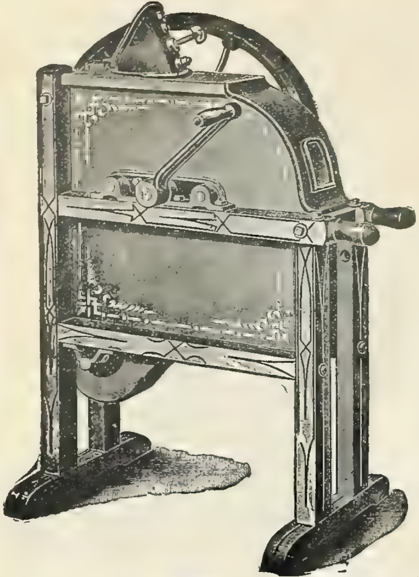
Takes the place of the cast iron caldron. Boiler of galvanized steel; furnace of gray iron castings and sheet steel; sides of double thickness of steel with hot air space between. Guaranteed just as represented in the illustration or money will be refunded.

PRICES.

25 gal.	$15.00	50 gal.	$21.00
30 gal.	16.50	65 gal.	22.50
40 gal.	19.50	75 gal.	24.00
		100 gal.	$27.00.

Discount for cash, 10 per ct.


GRANITE STATE CO.



Wisconsin Valley Corn Sheller.

STRICTLY HIGH GRADE.

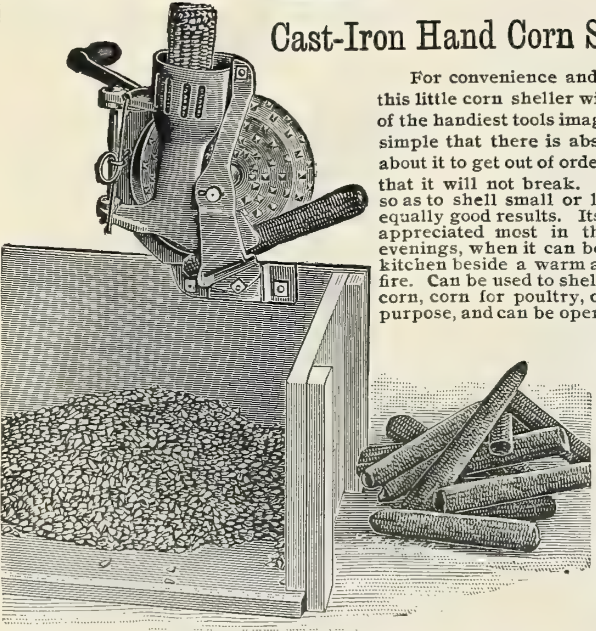
This is unquestionably the most popular type of hand corn sheller made, and as improved and now manufactured it combines every desirable feature to make it a PERFECT sheller.

The frame is made of hard wood and is bolted together. The shafting is steel, and runs in bored bearings which are bolted to the frame. Great care is taken in every detail of construction, and the entire machine is tastefully ornamented and handsomely finished.

Price, $7.00.

Discount for Cash, 50 cents.

Cast-Iron Hand Corn Sheller.



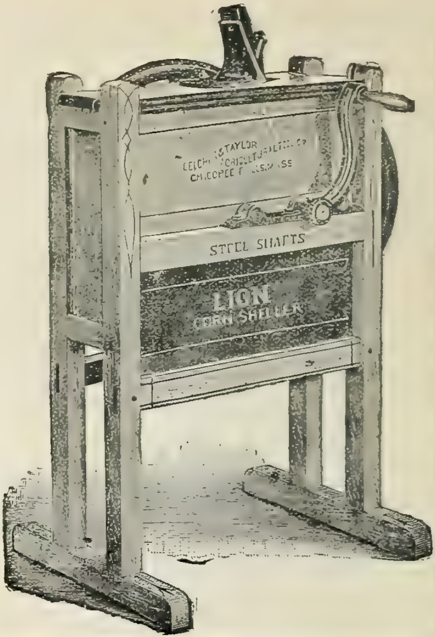
For convenience and general utility this little corn sheller will be found one of the handiest tools imaginable. It is so simple that there is absolutely nothing about it to get out of order, and so strong that it will not break. Can be adjusted so as to shell small or large ears with equally good results. Its value will be appreciated most in the cold winter evenings, when it can be taken into the kitchen beside a warm and comfortable fire. Can be used to shell pop corn, seed corn, corn for poultry, or for any other purpose, and can be operated by a child.

The adjusting shell is held against the ear of corn by a spring, the tension of which is easily & quickly adjusted. This shell forces the ear of corn against the shelling wheel and causes the ear to revolve so that the corn is shelled from the ear clean.

Net Cash Price only $1.50.

LION CORN SHELLER

Is a Rapid, Easy Working and Smooth Running Sheller, Shelling all kinds of Corn.



Made with a heavy Balance Wheel, Steel Shafts. Adjustable Iron Hopper with Steel Springs. Solid Side Bearings, which hold the shafts firmly in position. Gearing all inside, and so made that the corn cannot get into it. Made only with our Improved Separator.

Retail Price, $12.00.

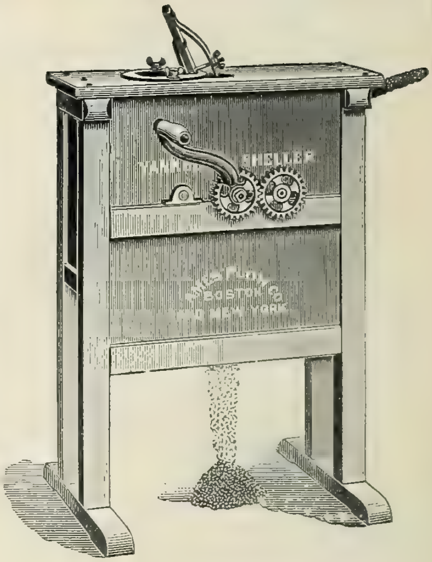
Discount for Cash, $2.00.

THE YANKEE Corn Sheller.

◆ ◆ ◆

This favorite corn sheller has been on the market for many years and has always given entire satisfaction. It is made so that one person can operate and feed it at the same time. It is also furnished with a blower or separator, which separates the cob and hulls from the shelled corn.

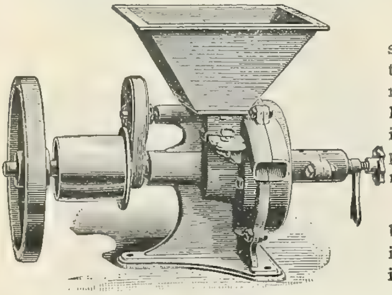
◆ ◆ ◆



List Price with Separator, $8.00.

Discount for Cash, $1.00.

DAISY POWER GRIST MILL.



This is a new mill, and is designed for farmers feeding from 25 to 50 animals. Will grind corn meal, chop, cotton seed or any kind of small grain, and will grind it fine or coarse. The mill is not provided with cob crusher and is not suited to grind ear corn or cob.

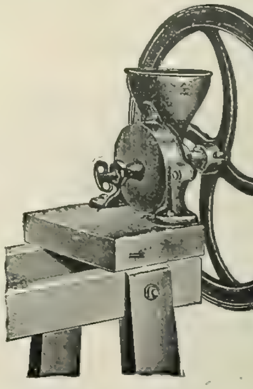
Has long bearings, best quality babbitt boxes, turned pulley 5 x 5 inches, balanced fly-wheel, and is in every way thoroughly first class.

The diameter of the grinding plates is 9 inches, and each mill is supplied with one extra set of plates without additional cost.

Power, 4 to 8-horse engine, or can be run successfully by tread or sweep horse-power. Capacity, 20 to 40 bushels per hour, according to power applied and condition of the grain. Speed, 1,200 to 1,800 revolutions per minute. Weight, 200 pounds.

List Price, $30.00. Discount for cash, 33⅓ per cent.

Cast-Iron Hand Grinding Mill.



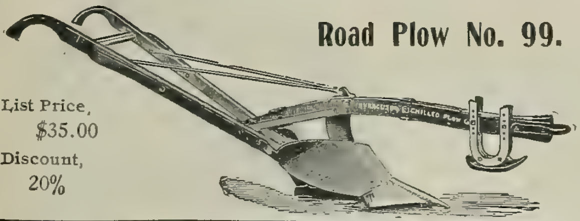
Every country home should be supplied with one of these little grist mills. They are perfect machines, having removable hard iron burrs, which are ground true, and which can be adjusted so as to grind to any degree of fineness. They will grind corn, wheat, rye, peas, salt or anything else which it is desirable to grind; so that one may have fresh corn meal, graham flour, hominy and fine table salt at any or all times.

A most useful machine for any one, but especially desirable in sparsely settled districts where custom mills are not within a convenient distance, or in new countries where there are no mills. Furnished with one set of burrs only. Extra burrs may be ordered with the mill or may be obtained later and can be easily put in place. The machine can be bolted to a table, a bench or any other convenient place. Weight, 30 lbs.

List Price, $5.00. Discount for Cash, $1.00.

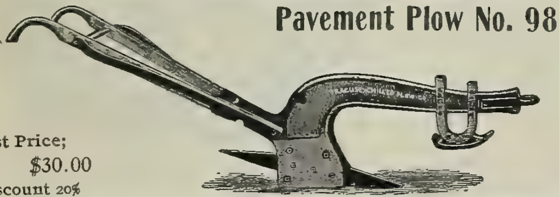
CONTRACTORS' AND ROAD-BUILDERS' SUPPLIES.

Road Plow No. 99.



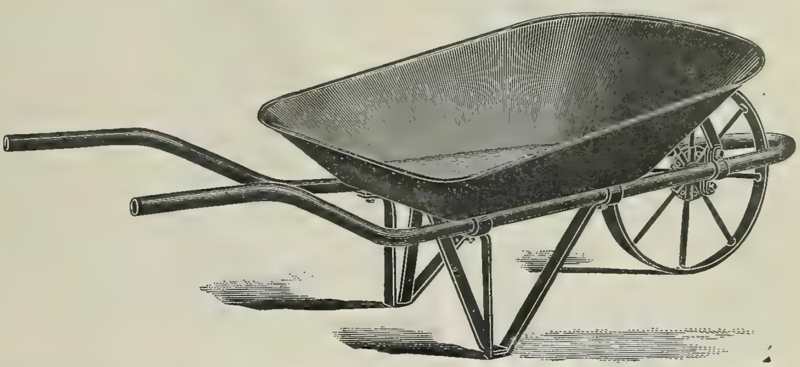
List Price, $35.00
Discount, 20%

Pavement Plow No. 98.



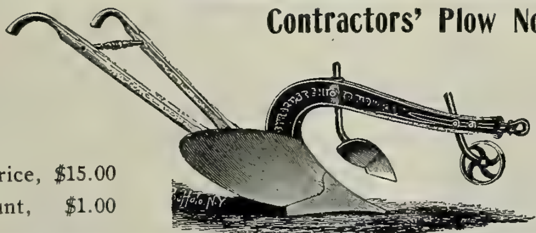
List Price; $30.00
Discount 20%

Tubular Steel Barrow with Pressed Steel Bowl.



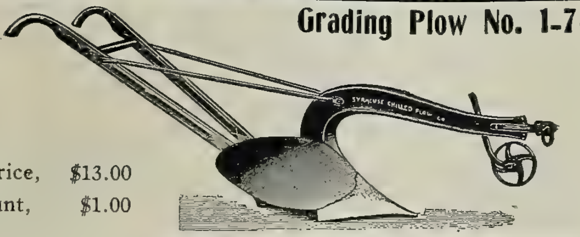
EACH, - - $5.00.

Contractors' Plow No. 1



List Price, $15.00
Discount, $1.00

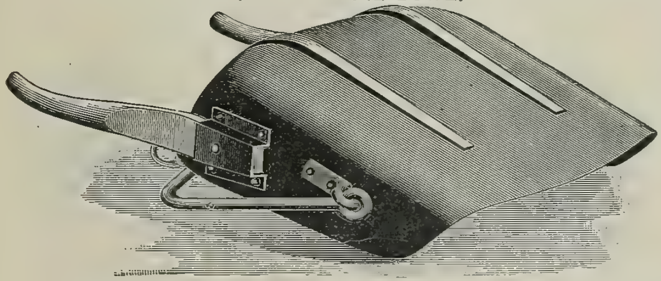
Grading Plow No. 1-78



List Price, $13.00
Discount, $1.00

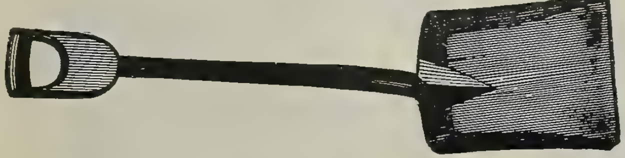
Boss Steel Scraper, with Runners.

PRESSED STEEL BOWL.



No. 0, carries 10 feet of earth,	$11.00
No. 1, " 7 " "	7.00
No. 2, " 5 " "	6.50
No. 3, carries 3 feet of earth,	$ 6.00
No. 0, Riveted Bowl,	10.00

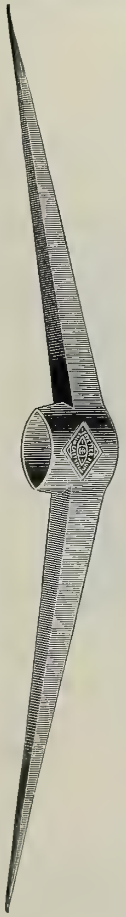
Shovels Following are all Ames' Make.



	Each.	Doz.
No. 2, Ames' Special, D. H., square,	$1.15	$12.00
No. 2, Ames' Special, D. H., round,	1.15	12.50
No. 2, Our Best, D. H., sq.,	.90	8.00
No. 2, " " " r'nd,	.90	8.25
No. 3, " " " sq.,	.95	8.25
No. 3, " " " r'nd.,	.95	8.50

Black finish 25 cts. per doz. less.

	Each.	Doz.
No. 2, Sunnyside, D. H., sq.	$ .80	7.50
No. 2, " " r'nd,	.85	7.75
No. 3, 4, 5 and 6, add 25 cents per size.		
No. 2, Champion Strapped Back, D. H., square,	.65	7.00
No. 2, Champion Strapped Back, D. H., round,	.65	7.00



Contractors' Picks.

	Each
7 lb.	75c
8 lb.	80c
9 lb.	85c

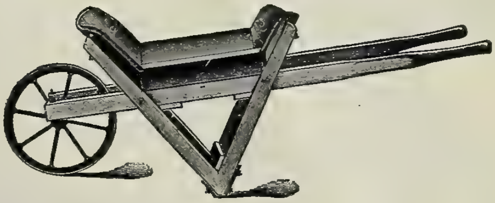
Railroad Picks.

6 lb.,	60c
7 lb.,	65c

Mattocks.

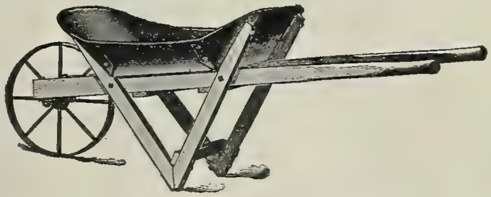
Axe,	75c
Pick,	75c
Bog Hoes,	50c

Contractors' Favorite Dump Barrow.



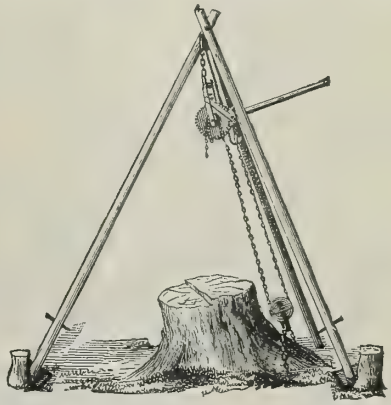
	Each.	Doz.
Steel Wheel, Iron Shoes.........	$2.00	$21.00
Wood " " "	1.75	19.00

Klondike Steel Tray Dump Barrow.



	Each.	Doz.
Steel Wheel and Iron Shoes.....	$2.75	$30.00

Stump Puller and Rock Lifter.

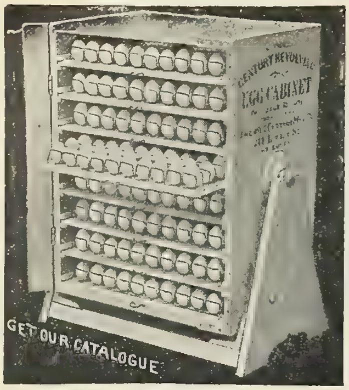


Simplest and most efficient device ever invented for pulling stumps and lifting stones or handling heavy bodies.

Price complete with Tripod..........	$28.00
Without Tripod	25.00

Century Revolving Egg Cabinet.

AN ALL-AROUND MACHINE. SIMPLE AND EFFECTIVE.



PATENTED.

High-grade eggs must be handled as little as possible, and with great care. The hand should not come into contact with them more than is absolutely necessary.

Fanciers with an eye to business use system in producing and caring for the various kinds of eggs. By use of this practical device—the invention of a poultryman—one can tell at a glance just how many eggs he has on hand from each pen or hen. A tray for a pen, or a row or section of tray for each hen.

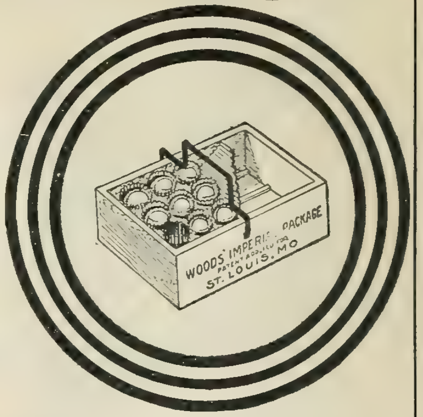
DIMENSIONS.—Two feet wide, 14 inches deep. Height varies according to capacity. Allow 2⅞ inches in clear between trays; which are of ⅜ in. lumber. Seventy eggs to trays of each, except last three sizes, which hold 49, 36 and 30 respectively. WEIGHT of 1050 egg size is 110 pounds; 840, 94 pounds; 560, 75 pounds; 288, 55 pounds; 150, 30 pounds.

NET PRICE LIST. F. O. B. FACTORY.

1050 egg size	$10.00	560 egg size	$6.25
910 egg size	9.25	392 egg size	5.75
840 egg size	8.50	288 egg size	5.00
700 egg size	7.75	150 egg size	3.00
630 egg size	7.00		

Wood's Imperial Package.

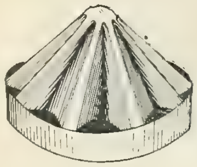
For shipping setting eggs this package posseses great strength on account of the stout wooden box. It is built to stand the hard usage it is liable to receive from the express companies. It should be seen to be appreciated. Send 30 cents and we will send post-paid, one 15 egg size.



PAT. APPLIED FOR.

PRICE BY EXPRESS.

15 egg size, each	15 cents	Per dozen	$1.50
30 " " "	25 "	" "	2.70
45 " " "	40 "	" "	3.90

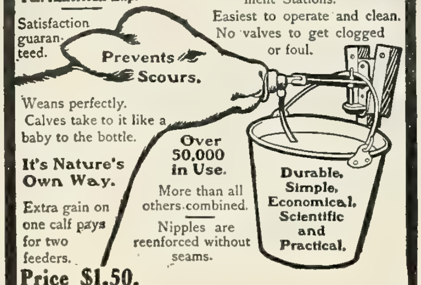


LATHROP'S Chick Feed and Water Device

Operates Grain, Water and Soft Feed. Keeps it clean until all is consumed. 20c. each, $1.00 ½ dz. $1.80 dz.

Patented April 8, 1902.

COMMON SENSE Calf Feeder



Gold Medal Pan-American Exp.

The only feeder adopted by Experiment Stations.

Easiest to operate and clean. No valves to get clogged or foul.

Satisfaction guaranteed.

Prevents Scours.

Weans perfectly. Calves take to it like a baby to the bottle.

It's Nature's Own Way.

Extra gain on one calf pays for two feeders.

Over 50,000 in Use.

More than all others combined.

Nipples are reenforced without seams.

Durable, Simple, Economical, Scientific and Practical.

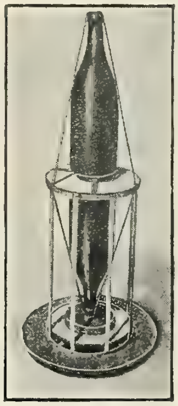
Price $1.50.

Our Cow's Relief is guaranteed to cure caked bag in 12 to 24 hours. Heals chapped or cracked teats, sores, scratches, etc. Sample box by mail for 50 cts. **"22 Valid Reasons Why You Should Use a Feeder,"** free.

LATHROP'S

Poultry Fountain,

Grit and Shell Feeder.



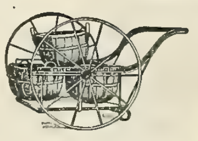
Pat. March 4, 1902.

Can be used for water or grain. Always clean and ready for use.

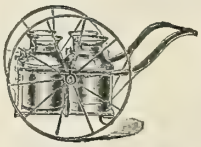
You will like it when you see it.

Price, only $1.50.

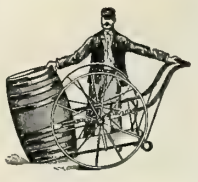
Butler Steel Hand Cart.



For the business man in every line this cart is indispensable The platform hangs low; rides level.

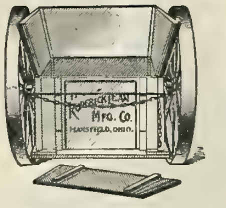


Will hold four milk cans and is in great demand in the creamery and dairy.



Tips forward and picks up a barrel or heavy article same as a warehouse truck. No heavy lifting

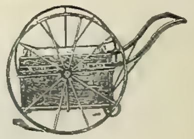
Price, $7.00.


ROSEBRICKLEAN MFG. CO. MANSFIELD, OHIO.

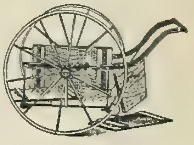
Sides and ends 12 inches high, extend upward and outward from the regular cart box, making a very useful rig for handling leaves, trash, grass, ensilage, etc. Capacity 21½ cubic feet, or about 14 bushels

FILLS the want for a 2-wheel hand truck better than all others combined. It is not merely suitable for one special purpose but for all. If you have use for a warehouse truck, the **BUTLER** fills that want. If you want a barrel cart, you have it in the **BUTLER**. While as a box cart for handling leaves, cut grass, trash, dirt, ashes, small grain, etc., it is your best friend. Merchants, printers, bakers, confectioners and hotels find it a great convenience for handling or delivering barrels, kegs, boxes, packages, etc. There is not a day around the farm, dairy, creamery, yard, garden or business house that it will not be in demand. It is light in weight, has great strength, and excels in general utility all other carts, and if numbers sold is any criterion of merit, this is unquestionably the cart of the future.

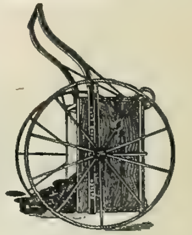
Price, $12.00.



This can be used continuously around the farm, garden or house. Box 26 ins. long, 25 ins wide, 15 ins. deep inside. Capacity 11 cubic feet.



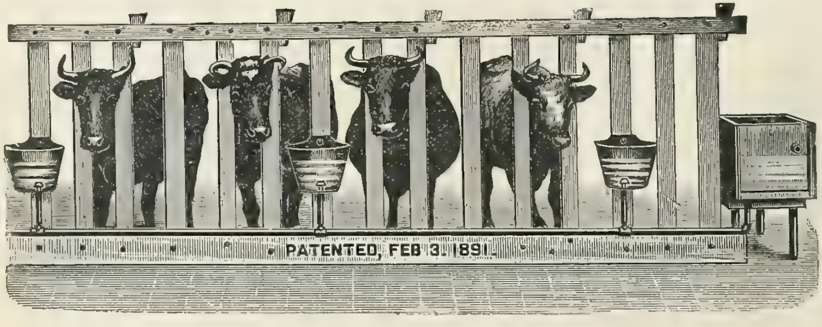
The side and end boards can be quickly detached. Easily loaded as a wheelbarrow.



Will turn clear over and dump load without shoveling.

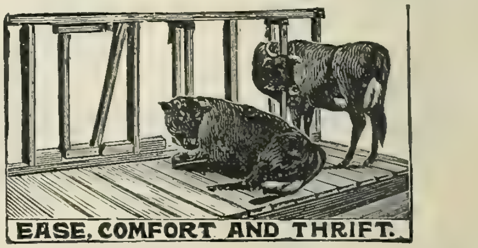
Price, $8.00.

Buckley's Patent Watering Device for Watering Stock in Stables.


PATENTED, FEB 3. 1891.

Water in the Stable is a Necessity.—It has come to be regarded as a matter of necessity for the proper caring of stock, while in the stable, that they should have constant access to the water of suitable temperature. The Buckley process shown above is the most practical method of having it. Plain, each, $1.00; doz., $11.00; with valve, $1.25; doz., $14.00.

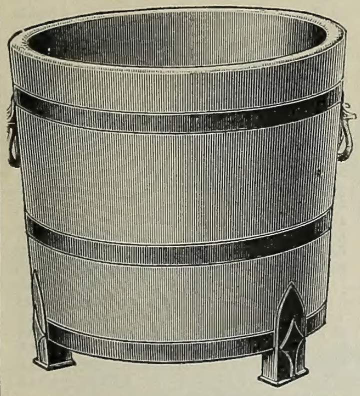
Smith's Patent Swing Cattle Stanchions.


EASE, COMFORT AND THRIFT.

The most durable tie-up ever invented, and the quickest to operate. Hundreds of barns rigged with these ties, and all giving perfect satisfaction.

Price, $1.25. Dozen lots, $1.15 each.

CEDAR TREE TUBS.

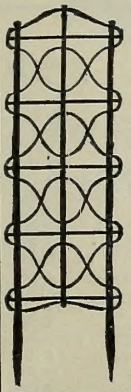


We have recently added Tree or Plant Tubs to our line. These are made of Virginia White Cedar, painted green, with hoops, handles and leg castings painted black. The bottoms are perforated and are removable. Much more durable and better adapted for large plants than clay pots.

PRICE LIST.

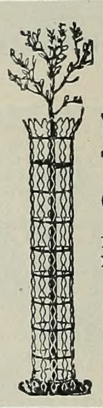
	Outside Diameter.	Length of Stave.	
No. 0.	27 inches.	24 inches,	$5.30
No. 1.	25 "	22 "	4.80
No. 2.	23 "	20 "	4.25
No. 3.	21 "	18 "	3.50
No. 4.	18 "	16 "	2.75
No. 5.	16 "	14 "	2.50
No. 6.	14 "	12 "	2.00
No. 8.	12 "	10 "	1.50

VERANDA TRELLIS.



This is by far the most ornamental and substantial trellis made, being especially adapted to out-door use for high climbing shrubs and vines.

	Each.	Per Doz'
5 ft. 18 in. wide,	$ .75	$ 8.00
6 ft. "	.85	9.50
7 ft. "	1.00	11.50
8 ft. "	1.10	13.00
9 ft. 20 in. wide,	1.25	15.00
10 ft. "	1.60	18.00
11 ft. 24 in. wide,	1.80	21.00
12 ft. "	2.15	24.00



Wire Tree Guard.

Made of extra heavy wire.

Each, $1.00.

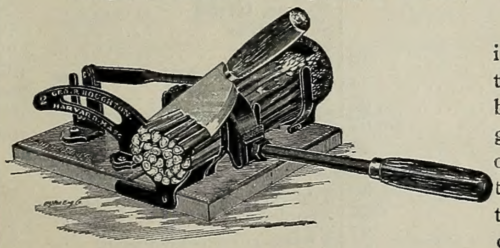
PLANT STICKS

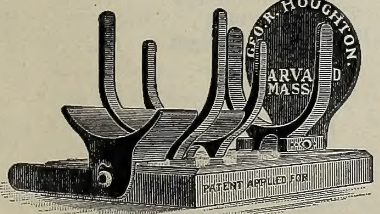
FOR POT OR GARDEN USE.

(Square, Painted Green.)

		Each,	
1½ feet Sticks,	Each, $ .02	$1.00 per hundred.
2 "	" .02	1.50 "
2½ "	" .03	2.00 "
3 "	" .03	3.00 "
3½ "	" .04	3.50 "
4 "	" .04	4.00 "
5 "	" .05	5.00 "
6 "	" .07	7.00 "

Houghton Combined Asparagus Buncher and Trimmer.


GEO. R. HOUGHTON
HARVARD MASS.

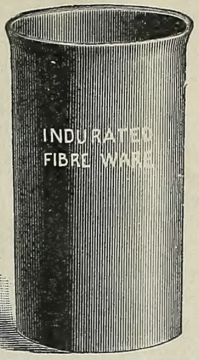

GEO. R. HOUGHTON.
HARVARD MASS.
6
PATENT APPLIED FOR

This is a great improvement on the old method of bunching Asparagus where it required a man to do the work. With this machine any child can bunch as fast as a man, and it does not crush like the old style metal clamp.

Price, Buncher and One Tray, $3.50.

Extra Trays, $1.00.

INDURATED FIBRE WARE.


INDURATED FIBRE WARE

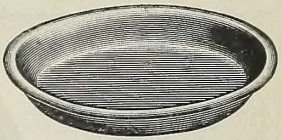
FLORISTS' VASES.

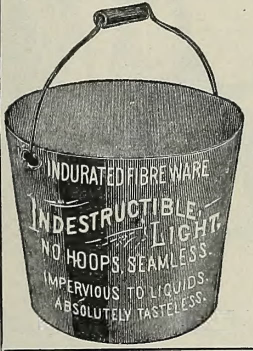
					Per Doz.	Crate Contains
No. 0.	8	in. diameter,	13	in. deep,	$4.80	½ doz.
No. 1.	5½	" "	10	" "	4.20	½ "
No. 2.	4½	" "	9	" "	3.60	½ "
No. 3.	4	" "	6	" "	3.00	½ "
No. 4.	3	" "	4½	" "	2.40	½ "
No. 00.	9	" "	22	" "	9.00	1/12 "
No. 11.	5½	" "	18	" "	5.40	½ "
No. 22.	4½	" "	15	" "	4.80	½ "
No. 33.	4	" "	12	" "	4.20	½ "
No. 44.	3	" "	9	" "	3.60	½ "

We do not sell less than a full crate.

FLOWER POT SAUCERS.

	Per 100
4-inch	$ 6.00
5 "	6.25
6 "	6.75
7 "	7.10
8 "	7.60
9 "	8.20
10 "	8.70
12 "	10.00
14 "	17.00




INDURATED FIBRE WARE
INDESTRUCTIBLE, LIGHT.
NO HOOPS, SEAMLESS.
IMPERVIOUS TO LIQUIDS.
ABSOLUTELY TASTELESS.

FIBRE PAILS.

Star, 12-quart, each	30 cents.
Stable, 14-quart, each	40 cents.
Stable, 16-quart, each	50 cents.
Pine Stable Pails, 3-hoop	25 cents.
Cedar Stable Pails, 3-hoop	35 cents.
J. I. C. Stable Oak Pails, 3 hoop	50 cents.

Galvanized Iron Stable Pails. 10-quart, 25 cents; 12-quart, 35 cents; 14-quart, 40 cents.

* * *

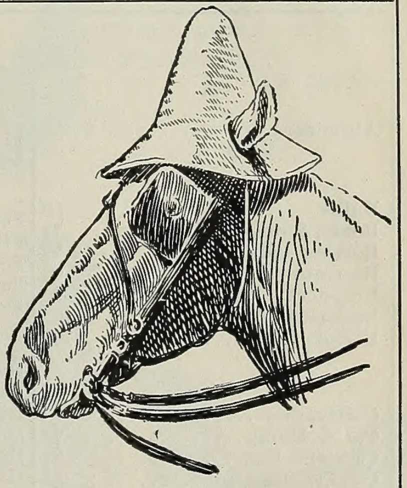
Three sizes, by mail postpaid.

No. 1. Small size, Plain Straw, 15 cents.

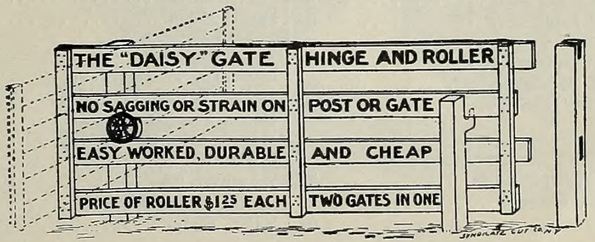
No. 2. Large size, Plain Straw, 20 cents.

No. 3. Large Size, Fancy Straw, red and green, 25 cents.

* * *



Solid-Comfort Horse Hat


THE "DAISY" GATE
HINGE AND ROLLER
NO SAGGING OR STRAIN ON
POST OR GATE
EASY WORKED, DURABLE
AND CHEAP
PRICE OF ROLLER $1.25 EACH
TWO GATES IN ONE

Weights of Grass and Field Seeds and Quantities Sown per Acre.

		Weights.	Quantity Sown Per Acre.
Timothy	per bush.	45 lbs.	1-2 bush.
Clover, Red	“	60 lbs.	15 to 20 lbs.
Clover, White	“	60 lbs.	10 to 15 lbs.
Clover, Alsike	“	60 lbs.	8 to 10 lbs.
Clover, Alfalfa	“	60 lbs.	15 to 20 lbs.
Red Top	per sack	50 lbs.	2 1-2 to 3 bush.
Red Top	per bush.	10 lbs.	2 1-2 to 3 bush.
Red Top, Fancy			10 to 15 lbs.
Bent, R. I.	per bush.	10 lbs.	3 bush,
Bent, Fancy			10 to 25 lbs.
Blue Grass	per bush.	14 lbs.	2 to 3 bush.
Fowl Meadow	“	11 lbs.	1 to 2 bush.
Hungarian	“	48 lbs.	1-2 to 1 bush.
Lawn Seed	“	16 lbs.	3 to 4 bush.
Millet, American	“	50 lbs.	1-2 to 1 bush.
Millet, German	“	50 lbs.	1-2 to 1 bush.
Millet, Golden	“	50 lbs.	1-2 to 1 bush.
Orchard Grass	“	14 lbs.	2 to 3 bush.
Crested Dog's Tail	“	28 lbs.	1 bush.
Hard Fescue	“	14 lbs.	2 bush.
Italian Rye Grass	“	18 lbs.	3 bush.
Meadow Fescue	“	15 lbs.	2 1-2 to 3 bush.
Meadow Foxtail	“	8 lbs.	3 bush.
Perennial Rye Grass	“	24 lbs.	2 bush.
Rough Stalked Meadow	“	14 lbs.	2 bush.

		Weights.	Quantity Sown Per Acre.
Sweet Vernal	per bush.	11 lbs.	3 bush.
Sheep Fescue	“	12 lbs.	2 bush.
Tall Fescue	“	15 lbs.	2 1-2 to 3 bush.
Tall Oat Grass	“	12 lbs.	4 bush.
Wood Meadow	“	14 lbs.	2 bush.
Yellow Oat Grass	“	8 lbs.	4 bush,
Buckwheat	“	48 lbs.	1-2 to 1 bush.
Barley	“	48 lbs.	2 to 3 bush.
Oats	“	32 lbs.	2 to 3 bush.
Rye	“	56 lbs.	1 1-2 bush.
Wheat	“	60 lbs.	1 1-2 bush.
Flax	“	56 lbs.	1 to 2 bush.
Canary	“	60 lbs.	
Hemp	“	40 lbs.	
Rape	“	50 lbs.	
Beans, White	“	60 lbs.	1 to 1 1-2 bush.
Beans, Red Kidney	“	58 lbs.	1 to 1 1-2 bush.
Beans, Fancy Seed, measured bush.			1 to 1 1-2 bush.
Corn, Sweet, measured bush.			8 to 10 quarts.
Corn, Ensilage, measured bush.			3 bush.
Corn, Field	per bush.	56 lbs.	8 to 12 quarts.
Peas, Canada Field	“	60 lbs.	1 1-2 to 3 bush.
Peas, Green Field	“	60 lbs.	1 1-2 to 3 bush.
Peas, Fancy Seed, measured bush.			1 1-2 to 3 bush.

Quantity of Seed Required to Sow an Acre of Ground.

	Quantity Per Acre.
Artichoke, 1 oz. to 500 plants	1-2 lb.
Asparagus, 1 oz. to 200 plants	5 lbs.
Beans, dwarf, 1 quart to 150 feet of drill	1 1-4 bush.
Beans, Pole, 2 quarts to 200 hills	1-2 bush.
Beet, Garden, 1 oz. to 100 feet of drill	10 lbs.
Beet, Mangel, 1 oz. to 150 feet of drill	6 lbs.
Broccoli, 1 oz. to 3,000 plants	5 oz.
Broom Corn	10 lbs.
Brussells Sprouts, 1 oz. to 3,000 plants	5 oz.
Cabbage, 1 oz. to 3,000 plants	5 oz.
Carrot, 1 oz. to 150 feet of drill	2 1-2 lbs.
Cauliflower, 1 oz. to 3,000 plants	5 oz.
Celery, 1 oz. to 10,000 plants	4 oz.
Collards, 1 oz. to 2,500 plants	6 oz.
Corn, sweet, 1 quart to 500 hills	8 qts.
Cress, 1 oz. to 150 feet of drill	8 lbs.
Cucumber, 1 oz. to 80 hills	1 1-4 lbs.
Egg Plant, 1 oz. to 2,000 plants	8 oz.
Endive, 1 oz. to 300 feet of drill	3 lbs.
Flax, broadcast	1-2 bush.
Kale, 1 oz. to 3,000 plants	4 oz.
Kohl-Rabi, 1 oz. to 200 feet of drill	1 1-2 lbs.
Leek, 1 oz. to 250 feet of drill	4 lbs.
Lettuce, 1 oz. to 250 feet of drill	3 lbs.

	Quantity Per Acre.
Martynia, 1 oz. to 50 feet of drill	10 lbs.
Melon, Musk, 1 oz. to 100 hills	1 3-4 lbs.
Melon, Water, 1 oz. to 25 hills	1 1-2 lbs.
Nasturtium, 1 oz. to 50 feet of drill	10 lbs
Okra, 1 oz. to 50 feet of drill	10 lbs.
Onion Seed, 1 oz. to 200 feet of drill	4 to 5 lbs.
Onion Seed for Sets	30 to 50 lbs.
Onion Sets, 1 qt. to 20 feet of drill	8 bush
Parsnip, 1 oz. to 250 feet of drill	5 lbs.
Parsley, 1 oz. to 250 feet of drill	8 lbs.
Peas, Garden, 1 qt. to 150 feet of drill	1 1-2 bush.
Pepper, 1 oz. to 1,500 plants	4 oz.
Potatoes	8 bush.
Pumpkins, 1 quart to 300 hills	4 qts.
Radish, 1 oz. to 150 feet of drill	8 lbs.
Rye	1 1-2 bush.
Salsify, 1 oz. to 60 feet of drill	8 lbs.
Spinach, 1 oz. to 150 feet of drill	10 lbs.
Summer Savory, 1 oz. to 500 feet of drill	2 lbs.
Squash, Summer, 1 oz. to 40 hills	2 lbs.
Squash, Winter, 1 oz. to 10 hills	3 lbs.
Tomato, 1 oz. to 3,000 plants	3 oz.
Tobacco, 1 oz. to 5,000 plants	2 oz.
Turnip, 1 oz. to 250 feet of drill	1 1-2 lbs.

INDEX.

A

Page.
Atomizers ... 87–88

B

Bulbs ... 50
Boats, Stone ... 74
Bottles, Milk ... 79
Barrows ... 92
Brooders ... 96–97
Boilers, Farmers' ... 105
Basins, Cattle ... 108

C

Cultivators ... 64–73
Carts, Dump ... 73
Carriers, Hay ... 77
Cutters, Ensilage ... 81–83
Cutters, Root ... 85
Cutters, Lever ... 85
Carriers, Egg ... 91
Cushions ... 92
Coops ... 98
Contractors' Goods ... 107
Calf Feeders ... 93–108
Carts, Hand ... 108

D

Diggers, Potato ... 71
Dairy Goods ... 79–80
Dryers ... 91

E

Page.
Engines ... 84
Egg Holders ... 108

F

Fertilizers ... 55 to 60
Freezers ... 85
Feeder, Poultry ... 91
Fencing ... 99
Feed, Chicken ... 100–101

H

Harrows ... 63 to 67
Harness ... 73
Harvester, Corn ... 75
Hose, Rubber ... 87
Heaters ... 92
Hay Tools ... 77

I

Insecticides ... 90
Incubators ... 96

M

Mowers, Horse ... 75
Mills, Wind ... 84
Mills, Fanning ... 85
Miscellaneous Tools ... 93
Mills, Bone ... 97–98
Mowers, Lawn ... 102–104
Mills, Cider ... 105
Mills, Grist ... 106

N

Page.
Netting ... 98–99

O

Oil ... 91

P

Potatoes ... 19
Plants, Strawberry ... 54
Plows, Horse ... 60
Planters ... 66–67
Presses, Hay ... 73
Powers, Horse ... 84
Pumps, Spray ... 86–90
Pumps, Bucket ... 88X
Picker, Fruit ... 91
Pots, Flower ... 95
Paper Roofing ... 97
Pullers, Stump ... 107

R

Rollers ... 74
Rakes, Hay ... 76
Racks, Tool ... 92

S

Page.
Seeds, General List ... 1–25
Seeds, Miscellaneous ... 25
Seeds, Grass ... 26
Seeds, Lawn ... 29
Seeds, Flower ... 30–49
Spreaders ... 64
Sower, Fertilizer ... 68
Scales, Hay ... 78
Silos ... 78
Stones, Grind ... 78
Separators ... 79
Sections ... 91
Sprinklers, Lawn ... 102
Shellers, Corn ... 106
Scrapers, Steel ... 107
Stanchions ... 108

T

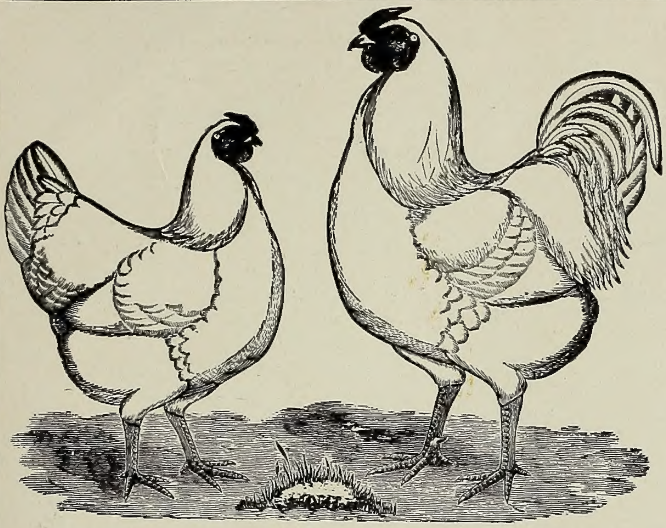
Tedders, Hay ... 76
Trucks ... 91
Twine ... 91
Thermometers ... 94
Tubs, Plant ... 109
Trellises, Plant ... 109

V

Vises ... 92
Veterinary Instruments ... 94
Vases, Flower ... 109

W

Weeder ... 73



White Wyandottes.

EGGS FOR SETTING

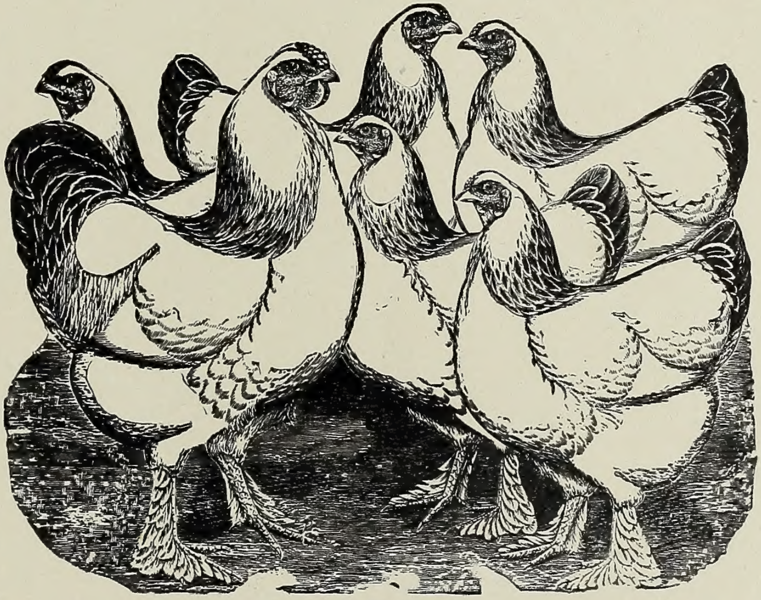
FROM

Thoroughbred · Poultry.

WE keep the following kinds of Poultry and can furnish eggs in season, either by the dozen or hundred. We have some very fine birds and have selected some of the best to get eggs for setting. We also have other pens of Barred Plymouth Rocks and White Wyandottes that we can furnish eggs from by the hundred for Incubators. The White Wyandotte is our favorite, and we have stock that is noted for its laying qualities. They are the best breed we know of where poultry and eggs are both wanted. Next to the Wyandottes we recommend the Barred Plymouth Rocks which are too well known to need any description.

Prices of Eggs:

White Wyandotte,	13, $1.50; 26, $2.50
Buff Wyandotte,	13, $2.00; 26, $3.00
Barred Plymouth Rock,	13, $1.50; 26, $2.50
Light Brahma,	13, $2.00; 26, $3.50
White Wyandotte and Barred Plymouth Rock,	Per 100, $6.00



Light Brahmas.

Valuable Poultry Books Cheap.

We believe that every one interested in Poultry should have some reliable book for reference, and we have therefore made arrangements with the publishers to furnish the following books, all sent postpaid at the prices quoted.

Artificial Incubating and Brooding.

A practical work contributed by the most experienced operator of incubators in America. 140 pages, 7x10. 100 illustrations. 8 full page designs. It contains full and complete instructions on the use and abuse of incubators. Price, only 50 cents.

Eggs and Egg Farms.

The mainstay of the poultry business. The book you have been looking for. Contains a large collection of facts. Covers the ground you will have to travel if you are starting in the poultry business. Eighty pages. Price, only 50 cents.

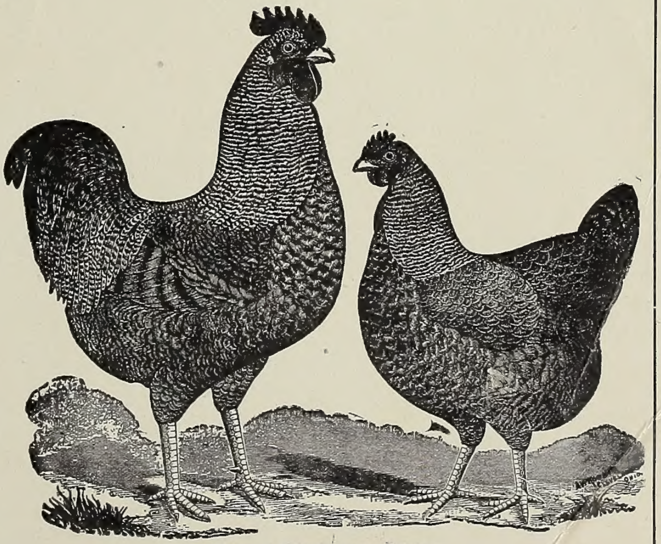
Poultry Houses and Fixtures.

32 pages, 9x12. Contains up-to-date designs of practical poultry buildings and special fixtures. Shows you how to build a cheap or a good house or coop. Beginners should have this book. Price, 25 cents.

Other books that we have not room to describe:

Ducks and Geese	Price, 50 cents
Plymouth Rocks—Barred, White and Buff	Price, 50 cents
Wyandottes—White, Buff, Golden, Silver and Black.	Price, 50 cents
The Leghorns—Brown, White, Black and Buff	Price, 50 cents
The Bantam Fowl	Price, 50 cents
Turkeys—All Varieties	Price, 50 cents
The American Standard of Perfection	Price, $1.00

All of the above postpaid, and money returned if not satisfactory.



Barred Plymouth Rocks.

ROSS BROTHERS
CHOICE VEGETABLE SEEDS
AGRICULTURAL TOOLS
WE SELL EVERY TOOL NECESSARY FOR THE CULTIVATION OF THE SMALLEST GARDEN OR THE LARGEST FARM.